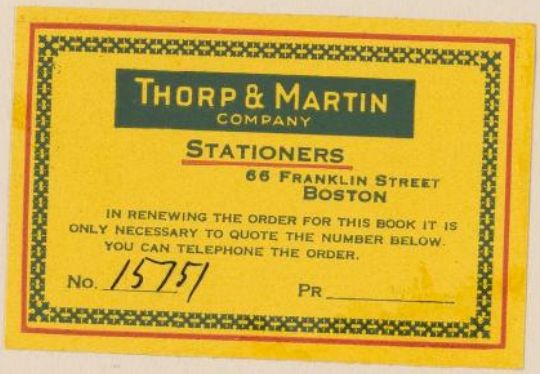
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1

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A.G. 4488

B.D. 11 2422[illegible]9

11h	59	57.4	+11	19.8	
		−66.3		−17.5	
11	58	45.1	+11	2.3	

B.D. 102381

4487

11h	59	46.1	+10	28.4	
		61.0		34.7	
11	58	45.1	+11	3.1	

B.D. 11242[illegible].6

4483

			+11	16.5	
11	58	40.8			
		4.7		−14.6	
11	58	45.5	+11	1.9	

B.D. 112428

Mean Dec. +11 2.4

10 2378

11	58	38.7	+10	56.6	
		1.4		6.3	
11	58	46.1	+11	02.8	

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$1^{mm} = 98.''2$

$4.^{s}1 = 60''$ at $+10°$

$1^{s} = 14.''6$

$1^{mm} = 6.^{s}7$

x^{mm}	y^{mm}	x^{s}	y'	A.G.
+0.7	−8.9	4.69	−14.57	(4483
−9.1	+21.2	−60.97	34.70	(4487
−9.9	−10.7	−66.33	−17.51	(4488
~~1.1~~	3.8	~~7.4~~	~~6.2~~	

Precession R.A. $3.^{s}07$

20

6 1.4 0

Precession Dec. $20''.054$

20

40 .4 8

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Book I

Positions of nebulae marked on A 6718.
Feb- March 1927.

Section C - pg. 2
Section B pg. 50
Section A pg 164 (continued in Book 2)

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2

— Section C. — A 6718 —

	X	Y	B.D. No. + 1855 pos.	1900 Pos. Comp.
10	1.2 0.8	8.7	102381	~~#125~~ 12 2 4.1
Reticule wrongly oriented for R.A:	-30.3 -29.6	-16.3	102382	12 4 6.4
	4.9 3.3 } scale measures reduced to seconds		11 59 46.1 +10 28.4	
	-124.2 -121.4 } × 4/0005		12 1 48.9 +10 53.3	
			Process correction 45 yrs.	
			+2m 18s -15.0	
11	12.9 11.4	5.8	"	
	-18.7 -17.8	-19.2		
	52.9 46.7			
	-76.7 -73.			
I.C. 3013	19.2 18.3	20.9	"	
	-12.6 -12.4	-4.1		
	78.7 75			
	-51.7 -50.8			
Note: Dec. of B.D. 86 11428 corrected by measurements on MC plate from 3 stars whose positions were taken from ~~A.G.C.~~ B.D.	2.5	2.0	11428 (dec?)	12 r 3.0 4.7 8.9
	-13.4	-15.6	11429	12 2 ~~10.0~~
	10.2		11 58 45.5 +11 2.4 ~~4.5~~	
	-54.9		11 59 51.4 +11 19.8	
			+2m 17.5 ~~18.6~~ -15.0	
87	5.0	3.5	"	
	-11.1	-14.2		
	20.5			
	-45.5			
9	11.7	2.7	"	
	-4.9	-15.1		
	48.0			
	~~-20.1~~			
	~~38.1~~			

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Reduced positions nebulae.

Stars		R.A.			Dec.	
	134			7.4		22.1
+10	~~44.8~~	12	2	~~5.0~~	+10	~~23.5~~
	38.3			5.0		22.0
+10	~~39.7~~	12	2	~~2.2~~	+10	~~23.4~~
			Mean			
		12	2	6	+10	22.0
				50.8		19.2
		12	2	~~57.0~~	+10	~~20.6~~
				53.4		19.1
		12	2	~~49.7~~	+10	~~20.5~~
		12	2	52.	+10	19.2
				19.1		34.3
		12	3	~~22.8~~	+10	~~35.7~~
				15.6		34.2
		12	3	~~14.7~~	+10	~~35.6~~
		12	3	17	+10	34.2.
				3.0 2.0		
+10	47.4	12	1	~~14.3~~	+10	49.4
+11	4.8			4.0		
		12	1	~~15.1~~	+10	49.2
		12	1	14.0	+10	49.3
				23.5		
		12	1	~~24.6~~	+10	50.9
				23.4		
		12	1	~~24.5~~	+10	50.6
		12	1	23.	+10	50.7
				51.0		
		12	1	~~52.1~~	+10	50.1
				48.8		
		12	1	~~31.9~~	+10	49.7
		12	1	50.	+10	49.9

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4

15	0.7 0.5	-6.5	112429	12 2 9.1	+
Reticule wrongly oriented for R.A.	29.3 28.0	20.3	102382	12 4 6.1	+
	~~28.7~~ 2.0 ~~2.9~~		11 59 59.4 +11 19.8		
	-120.1 -114.8		12 1 48.4 +10 55.3		
			2^m $17.^s7$ $-15.'$		
16	1.8 1.7	-5.8	"		
	-27.9 -26.8	20.6			
	7.4 7.0				
	-114.4 -109.9				
88	4.1 3.4	-17.1	"		
	-25.7 -25.1	9.6			
	16.8 13.9				
	-105.4 -102.9				
N.G.C. 4124	13.4 13.0	-9.3	"		
	-14.4 -15.6	17.4			
	54.9 53.3				
	-67.2 -64.0				
89	23.2 22.3	-18.3	"		
	-6.6 -6.2	+8.3			
	95.1 91.4				
	-27.1 -25.4				
17	5.4	-2.7	112431	12 3 8.7	+
	-17.3	18.3	112433	12 4 39.5	+
	22.1 20.9		12 0 51.2 +11 29.9		
	~~-11.4~~		12 2 22.0 +11 9.2		
			$+2^m$ $17.^s5$ $-15.^\circ0$		

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6718 C

				11.1 12.0		
+11	4.8	12	2	~~37.8~~	+ 10	58.3
				11.3		
+10	38.3	12	2	~~6.0~~	+ 10	58.6
		12	2	11.2	+ 10	58.4
				16.1 16.5		
		12	2	~~10.9~~	+ 10	59.0
				16.2		
		12	2	~~11.7~~	+ 10	58.9
		12	12	16.1	+10	59.0
				23.0		
		12	2	~~25.9~~	+ 10	47.7
				23.2		
		12	2	~~20.7~~	+10	47.9
		12	2	23.	+10	47.8
				2.4		
		12	3	~~3.0~~	+10	55.5
				2.1		
		12	3	~~58.9~~	+10	55.7
		12	3	2.1	+10	55.6
				40.5		
		12	3	~~44.2~~	+10	46.5
				40.7		
		12	3	~~39.0~~	+10	46.6
		12	3	41	+10	46.6
+11	14.9	12	3	30.8	+11	12.2
+10	54.2	12	3	28.6	+11	12.5
		12	3	30	+11	12.4

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90	14.8	−6.5		12 3 8.7	+
	−7.9	13.8		12 4 39.5	+
	60.7				
	−37.4				
5	8.0	−3.0	112423	12 0 7.4	+
	−4.1	3.1	112426	12 0 58.3	+
	32.8		11 57 49.9 +11°22'.8		
	−16.8		11 58 40.8 +11 16.5		
			+2ᵐ 17ˢ.5 −15°		
NGC. 4082	5.4	−9.8	112422	11 59 41.4	+
	−1.2	5.6	112423	12 0 7.4	+
7	22.1		11 57 23.9 +11 37.0		
	−4.9		11 57 49.9 +11 22.8		
			+2ᵐ 17ˢ.5 −15°		
I.C. 2991	5.7	−11.7	"		
	−1.0	3.7	"		
7	23.4				
	−4.1				
NGC. 4083	5.8	−13.4	"		
	−.7	±2.1			
7	23.8				
	−~~2.87~~ 2.9				
7	9.4	−7.7	112422	11 59 41.4	+
	−9.7	12.8	112426	12 0 58.3	+
	38.5		11 57 23.9 +11 37.0		
	−39.8		11 58 40.8 +11 16.5		
			2ᵐ 17ˢ.5 −15°		

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+11	14.9	12	4	9.4	+11	8.4
+10	54.2	12	4	7.1	+11	8.0
		12	4	8	+11	8.2
+11	7.8	12	0	40.2	+11	4.4
+11	1.5	12	0	41.5	+11	4.6
		12	0	41	+11	4.5
+11	22.0	12	0	3.5	+11	12.2
+11	7.8	12	0	2.5	+11	13.4
		12	0	3	+11	12.8
Comparison stars out in declination		12	0	4.8	+11	10.3
		12	0	3.3	+11	11.5
		12	0	4	+11	10.9
		12	0	5.2	+11	8.6
		12	0	4.5	+11	9.9
		12	0	5	+11	9.2
+11	22.0	12	0	19.9	+11	14.3
+11	1.5	12	0	18.5	+11	14.3
		12	0	19	+11	14.3

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6	11.5	−8.4	"	11	59	41.4 +
	−7.5	12.1		12	0	58.3 +
	47.2					
	−30.8					
1	−5.1	−32.5	11 24 22			
	−24.1	~~3.7~~ 2.1	11 24 28			
*See note p. 2 #86.	~~20.9~~					
	~~−57.3~~	Reticule wrongly	11 57 23.9 +11 37.0	11	59	41.4 +
	−98.8	oriented for Dec.	11 58 45.5 +11 ~~41.3~~ * 2.4	12	1	3.0 +
			2m 17.5 −15'			
2	−5.0	−30.6				
	−23.9	~~5.5~~ 4.0				
	20.5					
	~~−36.9~~					
	−98.0					
3	8.1	−26.8				
		~~−27.5~~				
	−11.7	~~8.1~~ 7.7				
	33.2					
	−48.0					
82	9.9	~~−33.4~~ −33.0				
	−10.6	1.8 1.6				
	40.6					
	−43.5					
83	13.0	−27.5 −26.7				
	−7.5	8.4 7.9				
	~~3.3~~					
	~~5.8~~					
	−30.8					

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+11	22.0	12	0	28.6	+11 13.6
+11	1.5	12	0	27.5	+11 13.6
		12	0	28	+11 13.6

		11	59	~~4.1~~ 20.5	+10 ~~49.5~~
		11	59	24.2	+10 49.5
+11	22.0	11	59	22	+10 49.5
+10	~~49.3~~ 47.4				

(Two well placed comparison stars)

		11	59	20.9	+10 51.4
		11	59	25.0	+10 51.4
		11	59	23	+10 51.4

		12	0	14.6	
		~~11~~	~~59~~	~~49.5~~	+10 55.2
		12	0	15.0	+10 55.1
		12	0	15.	+10 55.2

		12	0	22.0	+10 49.0
		12	0	19.5	+10 49.0
		12	0	21	+10 49.0

		12	0	34.7	+10 55.3
		12	0	32.2	+10 55.3
		12	0	33	+10 55.3

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4	13.8	~~-21.5~~ 9.6	11 24 22	11 59 41.4 +
	-6.2		11 24 28	12 1 3.0 +
	56.6	-25.4	11 57 23.9 +11 37.0	
	-25.4	9.2	11 58 45.5 +11 ~~4.3~~ 2.4	
			2 17.5 -15°	
84	15.6	~~-21.8~~ -25.2		
	-4.4	~~19.9~~ 9.4		
	64.0			
	-18.0			
85	17.5	~~-28.9~~		
	-2.5	~~6.9~~		
	71.8	-27.5		
	-10.2	7.1		
I C 3025	9.0	~~-9.4~~ -9.1	11 24 33	12 4 39.7 +
	-6.2	~~26.7~~ 26.0	10 23 85	12 5 41.6 +
	36.9		12 2 22.0 +11 9.0	
	-25.4		12 3 23.9 +10 33.6	
			2 17.7 -15	
24	14.7	15.0	11 24 31	12 3 9.2
	-0.2	-20.7	12 24 28	12 4 10.7
	60.3		12 0 51.2 +11 29.9	R.A
	-0.8		12 1 52.7 +12 5.7	
			2 18.0 -15	
18	3.3	16.1	11 24 33	
	-38.4	-10.0	11 24 35	
	13.5		12 2 22.0 +11 9.2	12 4 39.5 +
	-157.4		12 5 10.8 +11 35.0	12 7 28.3 +
			2 17.5 -15	

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+11	22.0	12	0	38.0	+10	56.6	
+10	47.4	12	0	37.6	+10	56.6	
		12	0	38	+10	56.6	
		12	0	45.4	+10	56.8	
		12	0	45.0	+10	56.8	
		12	0	45	+10	56.8	
		12	0	53.2	+10	54.5	
		12	0	52.8	+10	54.5	
		12	0	53	+10	54.5	
+10	54.0	12	5	16.6	+10	44.9	
+10	18.6	12	5	16.2	+10	44.6	
		12	5	16	+10	44.8	
+11	14.9	12	4	9.5	+11	29.9	
+11	50.9	12	4	9.9	+11	30.0	
		12	4	10	+11	30.0	
		12	4	53.0	+11	10.3	
		12	4	50.9	+11	10.0	
+10	54.2	12	4	52	+11	10.2	
+11	20.0						

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19	9.4	20.5	112433	12	4	39.5	+
	-32.2	-5.2	112435	12	7	28.3	+
	38.5		12 2 22.0 +11 9.2				
	-132.0		12 5 10.8 +11 35.0				
			7.5				
			2 18.6 -15				
20	3.7	21.9					
	-37.9	-3.9					
	15.2						
	-155.4						
21	4.6	24.0					
	-36.8	-1.8					
	18.9						
	-150.9						
Reticule wrongly oriented for R.A. 26	7.9 ~~7.7~~	-1.4	122428	12	4	10.7	+
	-41.7 ~~-40.6~~	24.1	112435	12	7	28.8	+
	32.4 31.6		12 1 52.7 +12 5.7				
	-171.0 ~~-166.5~~		12 5 10.8 +11 35.0				
			2 18.0 -15				
92	9.4 ~~8.7~~	-27.3					
	-39.7 ~~-39.6~~	3.3					
	39.4 35.6						
	-162.8 ~~-162.4~~						
22	18.9	+4.0	112431	12	3	9.2	+
	-35.9	-31.7	122433	12	6	52.7	+
	77.5		12 0 51.2 +11 29.9				
	-147.2		12 4 34.7 +12 5.6				
			2 16.0 -15				

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+10	54.2	12	5	18.0	+11 14.7
+11	20.0	12	5	16.3	+11 14.8
		12	5	17	+11 14.8
		12	4	54.7	+11 16.1
		12	4	52.9	+11 16.1
		12	4	54	+11 16.1
		12	4	58.4	+11 18.2
		12	4	57.4	+11 18.2
		12	4	58	+11 18.2
+11	50.7	12	4	42.3	+11 49.3
+11	20.0	12	4	42.3	+11 49.1
		12	4	42	+11 49.2
		12	4	46.3	+11 23.4
		12	4	46.4	+11 23.3
		12	4	46	+11 23.4
+11	14.9	12	4	26.7	+11 18.9
+11	50.6	12	4	25.5	+11 18.9
		12	4	26	+11 18.9

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23	18.4	4.5	11	12	3	9.2	
	-36.3	-31.2		12	6	52.7	
	75.4						
	-148.8						
IC. 3012	1.3	28.7	112431	12	3	9.2	+
	-13.3	-7.1	122428	12	4	10.7	+
	5.3		12 0 51.2 +11 29.9				
	-54.5		12 1 52.7 +12 5.7				
			2 18.0 -15				
14	28.0	-6.6	112424	12	0	20.0	+
	-13.0	9.8	112431	12	3	8.7	+
	114.8		11 58 2.5 +11 46.3				
	-53.3		12 0 51.2 +11 29.9				
			2 17.5 -15				
91	33.5	-11.5					
	-7.5	4.9					
	137.4						
	-30.8						
93	7.2	5.2	112424	12	0	20.0	+
	-20.4	-6.2	112430	12	2	12.7	+
	29.5		11 58 2.5 +11 46.3				
	-83.6		11 59 55.2 +11 57.7				
			2 17.5 -15				
13	+24.7	9.5					
	-2.8	-1.9					
	+101.3						
	-11.5						

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+11	14.9	12	4	24.6	+11	19.4
+11	50.6	12	4	23.9	+11	19.4
		12	4	24	+11	19.4
+11	14.9	12	3	14.5	+11	43.6
+11	50.7	12	3	16.2	+11	43.6
		12	3	15	+11	43.6
+11	31.3	12	2	14.8	+11	24.7
+11	14.9	12	2	15.4	+11	24.7
		12	2	15	+11	24.7
		12	2	37.4	+11	19.8
		12	2	37.9	+11	19.8
		12	2	38	+11	19.8
+11	31.3	12	0	49.5	+11	36.5
+11	42.7	12	0	49.1	+11	36.5
		12	0	49	+11	36.5
		12	2	1.3	+11	40.8
		12	2	1.2	+11	40.8
		12	2	1	+11	40.8

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8	1.2	−16.8	122421	11	59	53.5	+
	−5.4	6.1	112424	12	0	20.5	+
	4.9		11 57 35.5 +12 8.1				
	−22.1		11 58 2.5 +11 46.3				
			+2 18.0 −15				
94	4.5	− 9.0					
	−2.10	14.0					
	18.4						
	−8.2						
97	3.6	−1.8	122420	11	59	43.9	+
	−28.2	5.9	122423	12	1	54.4	+
	14.8		11 57 25.3 +12 27.8				
	−115.6		11 59 35.8 +12 20.1				
			2 18.6 −15				
95	7.6	1.8	122421	11	59	54.1	+
	−21.6	−10.2	122423	12	1	54.4	+
	31.2		11 57 35.5 +12 8.1				
	−88.6		11 59 35.8 +12 20.1				
			2 18.6 −15				
12	19.6	6.4					
	−9.6	−5.7					
	80.4						
	−39.4						
120	21.3	7.5					
	−7.9	−4.6					
	87.3						
	−32.4						

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1927phae.proj..2311A

+ 11	53.1	11	59	58.4	+11	36.3
+ 11	31.3	11	59	58.4	+11	37.4
		11	59	58	+11	36.8

Comparison star 122421 out in declination

		12	0	11.9	+11	44.1
		12	0	12.3	+11	45.3
		12	0	12	+11	44.7

+12	12.8	11	59	48.7	+12	11.0
+12	5.1	11	59	48.8	+12	11.0
		11	59	49	+12	11.0

+11	53.1	12	0	25.3	+11	54.9
+12	5.1	12	0	25.8	+11	54.9
		12	0	26	+11	54.9

				14.5		
		12	1	~~3.5~~	+11	59.5
		12	1	15.0	+11	59.4
		12	1	15	+11	59.4

				21.4		
		12	1	~~6.8~~	+12	0.6
		12	1	22.0	+12	0.5
		12	1	22	+12	0.6

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121	21.5	8.2		11	59	54.1
	-7.8	-3.8		12	1	54.4
	88.1					
	-32.0					
98	25.9	3.6				
	-3.2	-8.4				
	106.2					
	-13.1					
96	1.7	-9.2	122420	11	59	43.9
	-0.8	9.3	122421	11	59	54.1
	7.0		11 57 25.3 +12 27.8			
	-3.3		11 57 35.5 +12 8.1			
			2 18.6 -15			
119	7.8	1.3	112430	12	2	13.2
	-20.7	-6.6	122428	12	4	10.7
	32.0		11 59 55.2 +11 57.7			
	-84.9		12 1 52.7 +12 5.7			
			2 18 -15			
100	9.5	3.5				
	-19.0	-4.5				
	39.0					
	-77.9					
99	1.6	-9.5	122423	12	1	53.8
	-2.9	12.1	112430	12	2	13.2
	6.6		11 59 35.8 +12 20.1			
	-11.9		11 59 55.2 +11 57.7			
			2 18.0 -15			

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+11	53.1	12	1	22.2	+12	1.3
+12	5.1	12	1	22.4	+12	1.3
		12	1	22	+12	1.3
		12	1	40.3	+11	56.7
		12	1	41.3	+11	56.7
		12	1	41	+11	56.7
+12	12.8					
~~+12~~	~~12.8~~	11	59	50.9	+12	3.6
+11	53.1					
~~+12~~	~~23.1~~	11	59	50.8	+12	2.4
Comparison star 122421 cut in dec.		11	59	51	+12	3.0
+11	42.7					
~~+12~~	~~12.7~~	12	2	45.2	+11	47.0
+11	50.7					
~~+12~~	~~30.7~~	12	2	45.8	+11	44.1
		12	2	46	+11	44.0
		12	2	52.2	+11	46.2
		12	2	52.8	+11	46.2
		12	2	52 (2)	+11	46.2
+12	5.1	12	2	04	+11	55.6
+11	42.7	12	2	13	+11	54.8
		12	2	1	+11	55.2

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99.	1.8	−9.2	122423	12	1	54.4
	−31.6	5.1	122428	12	4	11.3
	7.4		11 59 35.8 +12 20.1			
	−129.6		12 1 52.7 +12 5.7			
			2 18.6 −15			
25	8.0	−7.4				
	−25.6	6.9				
	32.8					
	−105.0					
102	~~29.2~~	−6.2				
	−14.2	8.3				
	~~+19.7~~ 78.7					
	−58.2					
103	24.~~8~~ 7	−2.9				
	−8.5	11.6				
	~~108.4~~ 1.3					
	−34.8					
105	26.1	−1.7				
	−7.4	13.0				
	107.0					
	−30.3					
28	19.4	−1.6				
	−14.1	12.8				
	79.5					
	−57.8					

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+12	5.1	12	2	1.8	+11	55.9	
+11	50.7	12	2	1.7	+11	55.8	
		12	2	2	+11	55.8	
		12	2	27.2	+11	57.7	
		12	2	26.3	+11	57.6	
		12	2	27	+11	57.6	
		12	3	13.1 ~~54.1~~	+11	58.9	
		12	3	13.1 ~~53.1~~	+11	59.0	
		12	3	13	+11	59.0	
		12	3	5.7 34.8	+12	2.2	
		12	3	36.5	+12	2.3	
		12	3	36	+12	2.2	
		12	3	41.4	+12	3.4	
		12	3	41.0	+12	3.7	
		12	3	41	+12	3.6	
		12	3	13.9	+12	3.5	
		12	3	13.5	+12	3.5	
		12	3	14	+12	3.5	

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27	33.2	−10.1		12	1	54.4
	−0.3	4.3		12	4	11.3
	136.2					
	−1.2					
106	32.5	−2.0				
	−1.0	12.6				
	133.2					
	−4.1					
107	32.9	−1.3				
	−0.7	13.2				
	134.9					
	−2.9					
35	1.6	23.3	122428	12	4	11.3
	−12.6	−11.1	122432	12	5	9.3
	6.6		12 1 52.7 +12 5.7			
	−51.6		12 2 50.9 +12 39.6			
			2 18.6 −15			
36	11.3	24.6				
	−2.9	−9.4				
	46.3					
	−11.9					
40	2.6	18.6	122423	12	1	54.4
	−4.4	−6.7	122424	12	2	23.1
	10.7		11 59 35.8 +12 20.1			
	−18.0		12 0 4.5 +12 45.4			
			2 18.6 −15			

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+12	5.1	12	4	10.6	+11	55.0
+11	50.7	12	4	10.1	+11	55.0
		12	4	10.	+11	55.0
		12	4	7.6	+12	3.1
		12	4	7.2	+12	3.3
		12	4	7	+12	3.2
		12	4	9.3	+12	3.8
		12	4	8.4	+12	3.9
		12	4	9	+12	3.8
+11	50.7	12	4	17.9	+12	14.0
+12	24.6	12	4	17.7	+12	13.5
		12	4	18	+12	13.8
		12	4	57.6	+12	15.3
		12	4	57.4	+12	15.2
		12	4	58	+12	15.2
+12	5.1	12	2	5.1	+12	23.7
+12	30.4	12	2	5.1	+12	23.7
		12	2	5	+12	23.7

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101	6.2	1.3	122423	12	1	54.4
	−10.4	−10.9	122425	12	3	2.3
	25.4		11 59 35.8 +12 20.1			
	−42.6		12 0 43.9 +12 32.2			
			2 18.6 −15			
30	13.0	6.4				
	−3.6	−5.8				
	53.3					
	−14.8					
31	13.7	8.0				
	−3.0	−3.9				
	56.2					
	−12.3					
104	10.9	11.2				
	−5.7	−1.0				
	44.7					
	−23.4					
29	14.5	2.8				
	−2.2	−9.4				
	59.4					
	−9.0					
32	3.0	−4.7	122425	12	3	2.5
	−14.1	21.9	122428	12	4	11.3
	12.3		12 0 43.9 +12 32.2			
	−57.8		12 1 52.7 +12 5.7			
			2 18.6 −15			

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1927phae.proj.23110

+12	5.1	12	2	19.8	+12	6.4
+12	17.2	12	2	19.9	+12	6.3
		12	2	20	+12	6.4
		12	2	47.7	+12	11.5
		12	2	47.5	+12	11.4
		12	2	48	+12	11.4
		12	2	50.6	+12	13.1
		12	2	50.0	+12	13.3
		12	2	50	+12	13.2
		12	2	39.1	+12	16.3
		12	2	38.9	+12	16.2
		12	2	39	+12	16.2
		12	2	53.8	+12	7.9
		12	2	53.3	+12	7.8
		12	2	54	+12	7.8
+12	17.2	12	3	14.8	+12	12.5
+11	50.7	12	3	13.5	+12	12.6
		12	3	14	+12	12.6

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33	8.5	−5.9		12	3	2.5	+
	−8.6	20.7		12	4	11.3	+
	34.8						
	−35.3						
34	6.6	−1.8					
	−10.1	24.8					
	27.9						
	−41.4						
37	1.6	−10.8	12 2 43 2	12	5	9.3	+
	−23.4	23.7	12 2 43 3	12	6	53.3	+
	6.6		12 2 50.7 +12 34.6				
	−95.9		12 4 34.7 +12 5.6				
			2 18.6 −15				
38	7.5	−14.1					
	−22.6	20.4					
	10.2						
	−92.7						
109	2.5	−13.7					
	−22.5	20.8					
	10.2						
	−92.2						
110	2.6	−12.8					
	−22.5	21.7					
	10.7						
	−92.2						

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1927phae.proj.2311A

+12	17.2	12	3	37.3	+12	11.3
+11	50.7	12	3	36.0	+12	11.4
		12	3	37	+12	11.4
		12	3	29.4	+12	15.4
		12	3	29.9	+12	15.5
		12	3	30.0	+12	15.4
+12	24.6	12	5	15.9	+12	13.8
+12	50.6	12	5	17.4	+12	14.3
		12	5	17.0	+12	14.0
		12	5	19.5	+12	10.5
		12	5	20.6	+12	11.0 ~~10.0~~
		12	5	20	+12	10.8
		12	5	19.5	+12	10.9
		12	5	21.1	+12	11.4
		12	5	20.	+12	11.2
		12	5	20.0	+12	11.8
		12	5	21.1	+12	12.3
		12	5	21	+12	12.0

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43	0.7	12.8	122425	12	3	2.5	+
	-22.9	-5.2	122431	12	4	39.3	+1
	2.9		12 0 43.9 +12 32.7				
	-93.9		12 2 20.7 +12 50.1				
			2 18.6 -15				
39	3.0	5.9					
	-20.7	-12.1					
	12.3						
	-84.9						
112	5.6	12.6	122419	11	59	42.0	+
	-17.3	-15.1	132488	12	1	16.3	+
	23.0		11 57 24.0 +12 51.9				
	-70.9		11 58 58.3 +13 20.0				
			2 18.0 -15				
111	21.2	3.3					
	-1.7	-24.4					
	86.9						
	-7.0						
41	5.4	7.1	122422	12	1	9.3	+
	-22.5	-34.4	132495	12	3	3.3	+
	22.1		11 58 57.3 +12 43.3				
	-92.2		12 0 45.3 +13 24.9				
			2 18.0 -15				
42	20.5	7.4					
	-7.4	-34.2					
	84.0						
	-30.3						

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+12	17.2	12	3	5.4	+12	30.0
+12	35.1	12	3	5.4	+12	29.9
		12	3	5	+12	30.0
		12	3	14.8	+12	23.1
		12	3	14.4	+12	23.0
		12	3	15	+12	23.0
+12	36.9	12	0	5.0	+12	49.5
+13	5.0	12	0	5.4	+12	49.9
		12	0	5	+12	49.7
		12	1	8.9	+12	40.2
		12	1	9.3	+12	40.6
		12	1	9.1	+12	40.4
+12	28.3	12	1	31.4	+12	35.4
+13	9.9	12	1	31.1	+12	35.5
		12	1	31	+12	35.4
		12	2	33.3	+12	35.7
		12	2	33.0	+12	35.7
		12	2	33	+12	35.7

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55	1.4	− 8.8	132495	12	3	3.3
	−22.1	26.2	122431	12	4	38.7
	5.7		12 0 45.3 +13 24.9			
	−90.6		12 21 20.7 +12 50.1			
			2 18.0 −15			
54	2.4	−10.1				
	−21.2	24.9				
	9.8					
	−86.9					
53	1.2	−12.0				
	−22.4	23.1				
	4.9					
	−91.8					
50	1.6	−19.8				
	−21.8	15.2				
	6.6					
	−89.4					
49	1.8	−20.0				
	−21.5	14.9				
	7.4					
	−88.2					
46	11.2	− 30.2				
	−12.2	4.8				
	45.9					
	−50.0					

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+13	9.9	12	3	8.0	+13	1.1
+12	35.1	12	3	8.1	+13	1.3
		12	3	9	+13	1.2
		12	3	13.1	+12	59.8
		12	3	11.8	+13	0.0
		12	3	12	+12	59.9
		12	3	8.2	+12	57.9
		12	3	6.9	+12	58.2
		12	3	8.	+12	58.0
		12	3	9.9	+12	50.1
		12	3	9.3	+12	50.3
		12	3	10	+12	50.2
		12	3	10.7	+12	49.9
		12	3	10.5	+12	50.0
		12	3	11	+12	50.0
		12	3	49.2	+12	39.7
		12	3	48.7	+12	39.9
		12	3	49	+12	39.8

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47	12.8	-32.7		12	3	3.3
	-10.4	2.3		12	4	38.7
	52.5					
	-42.6					
45	12.8	-33.7				
	-10.4	1.4				
	52.5					
	-42.6					
44	10.5	-33.8				
	-12,8	1.2				
	43.0					
	-52.5					
48	22.8	-29.5				
	-0.5	6.0				
	93.5					
	-2.0					
IC3024	5.5	17.5	122431	12	4	45.0
	-0.8	-15.5	132500	12	5	10.7
	22.6		12 2 27.0 +12 50.1			
	-3.3		12 2 52.7 +13 23.5			
			2 18.0 -15			
IC.2994	37.7	-6.4	132485	11	57	47.0
	-13.2	11.3	132488	12	1	16.0
	154.6		11 55 29.3 +13 37.7			
	-54.1		11 58 58.3 +13 20.0			
			2 17.7 -15			

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+13	9.9	12	3	55.8	+12	37.2
+12	35.1	12	3	56.1	+12	37.4
		12	3	56	+12	37.3
		12	3	55.8	+12	36.2
		12	3	56.1	+12	36.5
		12	3	56	+12	36.4
		12	3	46.3	+12	36.1
		12	3	46.2	+12	36.3
		12	3	46	+12	36.2
		12	4	36.8	+12	40.4
		12	4	36.7	+12	41.1
		12	4	37	+12	40.8
	35.1				+12	52.6
12	~~45.1~~	12	5	7.6	~~+13~~	~~2~~.6
+13	8.5	12	5	7.4	+12	53.0
		12	5	8	+12	52.8
+13	22.7	12	0	21.6	+13	16.3
+13	5.0	12	0	22.9	+13	16.3
		12	0	22	+13	16.3

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51	37.8 −13.0 155.0 −53.3	−14.3 3.3		11 57 47.0 12 1 16.0	
113	47.6 − 3.5 195.2 −14.4	−14.4 3.2			
52	6.3 −18.3 25.8 −75.0	2.4 −8.5	132490 132495 11 59 6.8 +13 14.1 12 0 45.3 +13 24.9 2 17.7 −15	12 1 24.5 12 3 3.0	
56	9.9 −14.7 40.6 −60.3	6.1 −4.8			
57	12.1 −12.4 49.6 −50.8	9.4 −1.4			
58 (Wrong comparison star)	16.6 −7.9 −14.5 68.1 ~~32.4~~ −59.4	10.8 −10.5	132490 132497 11 59 6.8 +13 14.1 12 1 15.3 +13 35.9 2 17.7 −15	12 1 24.5 12 3 33.0	

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+13	22.7	12	0	22.0	+13	8.4
+13	5.0	12	0	22.7	+13	8.3
		12	0	22	+13	8.4
		12	1	2.2	+13	8.3
		12	1	1.6	+13	8.2
		12	1	2	+13	8.2
+12	59.1	12	1	50.3	+13	1.5
+13	9.9	12	1	48.0	+13	1.4
		12	1	49	+13	1.4
		12	2	5.1	+13	5.2
		12	2	2.7	+13	5.1
		12	2	4	+13	5.2
		12	2	14.1	+13	8.5
		12	2	12.2	+13	8.5
		12	2	13	+13	8.5
+12	59.1	12	2	32.6	+13	9.9
+13	20.9	12	2	33.6	+13	10.4
		12	2	33	+13	10.2

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59	15.8	11.3		12 1 24.5	+1
	~~8.8~~ -15.3	-10.0		12 3 33.0	+1
	64.8				
	~~36.1~~ -62.7				
60	9.4	-6.8	132497	12 3 33.0	+1
	-14.4	5.7	132500	12 5 10.4	+
	38.5		12 1 15.3 +13 35.9		
	-59.0		12 2 52.7 +13 25.5		
			2 17.7 -15.0		
61	8.4	-5.3			
	-15.5	7.2			
	34.4				
	-63.6				
62	8.8	-4.6			
	-15.0	7.9			
	36.1				
	-61.5				
				33.0	
64	9.8	2.2	132497	12 3 ~~57.6~~	+
	-12.8	-6.2	132499	12 5 6.0	+
	40.2		12 1 15.3 +13 35.9		
	-52.5		12 2 48.3 +13 44.3		
			2 17.7 -15		
63	17.1	4.2			
	-5.6	-4.1			
	70.1				
	-23.0				

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+12	59.1	12	2	29.3	+13	10.4
+13	20.9	12	2	30.3	+13	10.9
		12	2	30	+13	10.6
+13	20.9	12	4	11.5	+13	14.1
+13	8.5	12	4	11.4	+13	14.2
		12	4	11	+13	14.2
		12	4	7.4	+13	15.6
		12	4	6.8	+13	15.7
		12	4	7	+13	15.6
		12	4	9.1	+13	16.3
		12	4	8.9	+13	16.4
		12	4	9	+13	16.4
+13	20.9	12	4	13.2	+13	23.1
+13	29.3	12	4	13.5	+13	23.1
		12	4	13	+13	23.1
		12	4	43.1	+13	25.1
		12	4	43.0	+13	25.2
		12	4	43	+13	25.2

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65	0.4	5.3		12	3	33.0	+
	-22.2	-3.2		12	5	6.0	+
	1.6						
	-91.0						
	~~-80.0~~						
66	31.8	-11.3	132487	12	0	56.5	+
	-6.3	9.1	132497	12	3	33.0	+
	130.4		11 58 38.8 +13 56.5				
	-25.8		12 1 15.3 +13 35.9				
			2 17.7 -15				
I.C. 3006	19.3	-8.8					
	-18.9	11.6					
	79.1						
	-77.5						
67	18.5	-5.7	142471	12	0	3.6	+
	-24.8	16.2	132496	12	3	22.8	+
	75.8		11 57 45.2 +14 16.9				
	-122.2		12 1 4.4 +13 55.2				
			2 18.4 -15				
68	27.4	-4.5					
	-20.7	17.2					
	112.3						
	-84.9						
I.C. 3004	29.0	-13.8					
	-19.2	8.0					
	118.9						
	-78.7						

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+ 13	20.9	12	3	34.6	+13	26.2
+ 13	29.3	12	3	35.0	+13	26.1
		12	3	35	+13	26.2
+13	41.5	12	3	6.9	+13	30.2
+13	20.9	12	3	7.2	+13	30.0
		12	3	7	+13	30.1
		12	2	15.6	+13	32.7
		12	2	15.5	+13	32.5
		12	2	16.	+13	32.6
+14	1.9	12	1	19.4	+13	56.2
+13	40.2	12	1	20.6	+13	56.4
		12	1	20	+13	56.3
		12	1	559	+13	57.4
		12	1	57.9	+13	57.4
		12	1	57	+13	57.4
		12	2	2.5	+13	48.1
		12	2	4.1	+13	48.2
		12	2	3	+13	48.2

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69	38.8	-15.6		12	0	3.6	+
	-9.3	6.3		12	3	22.8	+
	159.1						
	-38.1						
114	30.1	-18.1					
	-18.1	3.8					
	123.4						
	-74.2						
115	5.8	-2.6	142474	12	2	80.6	+
	-32.3	33.3	132499	12	5	6.7	+
	23.8		12 0 12.2 +14 20.1				
	-132.4		12 2 48.3 +13 44.3				
			2 18.4 -15				
74	18.7	-1.3					
	-19.4	34.6					
	76.7						
	-79.5						
73	22.5	-5.7					
	-15.6	30.2					
	92.3						
	-64.0						
70	25.9	-14.1					
	-12.2	21.8					
	106.2						
	-50.0						

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+ 14	1.9	12	2	42.7	+13	46.3	
+ 13	40.2	12	2	44.7	+ 13	46.5	
		12	2	44	+ 13	46.4	
		12	2	7.0	+ 13	43.8	
		12	2	8.6	+ 13	44.0	
		12	2	8	+ 13	43.9	
+ 14	5.1	12	2	54.4	+ 14	2.5	
+ 13	29.3	12	2	54.3	+ 14	2.6	
		12	2	54.	+ 14	2.6	
		12	3	47.3	+ 14	3.8	
		12	3	47.2	+ 14	3.9	
		12	3	47.	+ 14	3.8	
		12	4	2.9	+ 13	59.4	
		12	4	2.7	+ 13	59.5	
		12	4	3	+ 13	59.4	
		12	4	16.8	+ 13	51.0	
		12	4	16.7	+ 13	51.1	
		12	4	17	+ 13	51.0	

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I.C. 3021	33.9	-29.3		12	2	30.6	+
	-4.2	6.7		12	5	6.7	+
	139.0						
	-17.2						
80	14.4	-11.4	142472	12	0	35.1	+
	-2.2	9.6	142473	12	1	43.2	+
	59.0		11 58 16.1 +14 48.9				
	-9.0		11 59 24.2 +14 28.0				
			2 19.0 -15				
116	6.5	-20.1	142473	12	1	43.2	+
	-16.5	3.7	142476	12	3	17.8	+
	26.6		11 59 24.2 +14 28.0				
	-67.6		12 0 58.8 +14 51.7				
			2 19.0 -15				
I.C. 3008	3.7	3.5	142474	12	2	31.2	+
	-59.4	-25.0	142479	12	6	51.1	+
	15.2		12 0 12.2 +14 30.1				
	-243.5		12 4 32.1 +14 48.6				
			2 19.0 -15				
I.C. 3018?	26.4	2.8					
	-36.9	-25.7					
	108.2						
	-151.3						
I.C. 3017	25.8	5.4					
	-37.4	-23.1					
	105.8						
	-153.3						

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+14	5.1	12	4	49.6	+13	35.8		
+13	29.3	12	4	49.5	+13	36.0		
		12	4	50.	+13	35.9		
+14	33.9	12	1	34.1	+14	22.5		
+14	13.0	12	1	34.2	+14	22.6		
		12	1	34	+14	22.6		
+14	13.0	12	2	9.8	~~+14~~	~~33.1~~	+14	16.7
+14	36.7	12	2	10.2	~~+14~~	~~33.0~~	+14	16.6
		12	2	10	~~+14~~	~~33.0~~	+14	16.6
+14	5.1	12	2	46.4	+14	8.6		
+14	33.6	12	2	47.6	+14	8.6		
		12	2	47	+14	8.6		
		12	4	19.4	+14	7.9		
		12	4	19.8	+14	7.9		
		12	4	20	+14	7.9	(1900)	
		12	9	28	+13	34.6	(2000)	
					+14	10.5		
		12	4	16.0	~~+13~~	~~59.7~~		
		12	4	17.8	+14	10.5		
		12	4	17	+14	10.5		

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77	8.8	5.0	12	2	31.2	+
	-54.6	-23.5	12	6	51.1	+
	36.1					
	-223.9					
79	10.8	9.7				
	-52.5	-18.8				
	44.3					
	-215.2					
75	12.3	0.1				
	-51.1	-28.4				
	50.4					
	-209.5					
76	16.4	1.8				
	-46.9	-26.7				
	67.2					
	-192.3					
78	21.4	12.8				
	-41.9	-15.7				
	87.7					
	-171.8					
117	26.8	15.3				
	-36.4	-13.2				
	109.9					
	-149.2					

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+ 14	5.1	12	3	7.3	+14 10.1
+ 14	33.6	12	3	7.2	+14 10.1
		12	3	7	+14 10.1
					+14 14.8
		12	3	15.5	
		12	3	15.9	+14 14.8
		12	3	16	+14 14.8
		12	3	21.6	+14 5.2
		12	3	21.6	+14 5.2
		12	3	22	+14 5.2
		12	3	38.4	+14 6.9
		12	3	38.8	+14 6.9
		12	3	39	+14 6.9
		12	3	58.9	+14 17.9
		12	3	59.3	+14 17.9
		12	3	59	+14 17.9
		12	4	21.1	+14 20.4
		12	4	21.9	+14 20.4
		12	4	22	+14 20.4

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118	37.3	23.9		12	2	31.2	-
	-25.9	- 4.6		12	6	51.1	+
	152.9						
	-106.2						
I.C. 3019	26.1	27.8					
	-37.2	-0.7					
	107.0						
	-152.5						
71	0.4	14.9	132499	12	5	6.7	+
	-14.8	-22.2	142477	12	6	9.4	+
	1.6		12 2 48.3 +13 44.3				
	-60.7		12 3 51. +14 21.5				
			2 18.4 -15				
72	3.0	13.9					
	-12.3	-23.2					
	12.3						
	-50.4						
108	15.2	3.7	122428	12	4	11.3	+1
	-42.6	-10.4	122435	12	8	9.0	+1
	62.3		12 1 52.7 +12 5.7				
	-174.7		12 5 50.4 +17 19.7				
			2 18.6 -15				
122	21.1	-2.6	132487	12	0	57.0	+
	+ 0.1	3.3	132493	12	2	24.7	+
	86.5		11 58 38.6 +13 56.5				
	+ .4		12 0 6.3 +13 50.5				
	21.0	6.0	2 18.4 -15				

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+14	5.1	12	5	4.1	+14	29.0
+14	33.6	12	5	49	+14	29.0
		12	5	4	+14	29.0
		12	4	18.2	+14	32.9
		12	4	18.6	+14	32.9
		12	4	18	+14	32.9
+13	29.3	12	5	8.3	+13	48.2
+14	6.5	12	5	8.7	+13	44.3
		12	5	9	+13	44.2
		12	5	19.0	+13	44.2
		12	5	19.0	+13	43.3
		12	5	19.0	+13	43.2
+11	50.7	12	5	13.6	+11	54.4
+12	4.7	12	5	14.3	+11	54.3
		12	5	14	+11	54.4
+13	41.5	12	2	23.5	+13	38.9
+13	35.5	12	2	25.1	+13	38.8
		12	2	24	+13	38.8

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84	4.8	25.3	142469	11	58	38.7
	24.6	−12.3	152409	12	0	39.4
	19.7		11 56 19.7 +14 27.0			
	−100.9		11 58 20.4 +15 4.5			
	29.4	37.5	2 19.0 −15			

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+14	12.0	11	58	58.4	+14	37.3
+14	49.5	11	58	58.5	+14	37.2
		11	58	58	+14	37.2

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– Section B – A 6718 –

	X mm	Y mm	B.D. stars, pos 1855 + precession for 45 yrs.	Comparison Stars 19
Orientation				
1	3.2 1.5	-12.2	102385	12h 5m 41.9s +
	-1.4 -0.7	5.9	102387	12 5 50.8 +
	13.1 6.2		12h 3m 23.9s +10° 33.6′	
	-5.7 -2.9		12 3 32.8 +10 16.6	
			2m 18.0s -15′	
Orientation				
2	17.2 15.6	-9.6	102385	12 5 41.9 +
	-3.8 -3.4	1.4	102389	12 7 0.5 +
	70.5 6.40		12 3 23.9 +10 33.6	
	-15.6 -13.9		12 4 42.5 +10 22.6	
			2 18.0 -15	
3	14.4	18.2	102385	12 5 41.9 +
	-9.7	-3.2	102390	12 7 20.4 +
	59.0		12 3 23.9 +10 33.6	
	-39.8		12 5 2.4 +10 54.9	
			2 18.0 -15	
I.C. 3037	22.5	14.2		
7	-1.6	-7.3		
	92.3			
	-6.6			
4	2.6	-4.7	102390	12 7 20.4 +
	-15.9	16.9	102393	12 8 36.9 +
	10.7		12 5 2.4 +10 54.9	
	-65.2		12 6 18.9 +10 33.5	
			2 18.0 -15	
I.C. 3043	4.7	-5.8		
	-13.8	15.7		
	19.3			
	-56.6			

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1900, pos. Reduced positions of nebulae.

+10°	18.6	12h	5m	48s.1 ~~55.0~~ 47.7	+10°	64.8
+10	1.6	12	5	~~5.1~~	+10	6.5
		12	5	48	+10	6.4
		12	6	45.9 ~~52.5~~		
+10	18.6	12	~~6~~	~~52.1~~ ~~57.1~~	+10	9.0
+10	7.6			~~49~~	+10	9.0
		12	6	46.6		
		12	6	~~46~~60	+10	9.0
+10	18.6	12	6	40.4	+10	36.8
+10	39.9	12	6	40.6	+10	36.7
		12	6	41	+10	36.8
		12	7	14.2	+10	32.8
		12	7	13.8	+10	32.3 ~~35.2~~
		12	7	14	+10	32.~~5~~6
+10	39.9	12	7	31.1	+10	35.2
+10	18.5	12	7	31.7	+10	35.4
		12	7	31	+10	35.3
		12	7	39.7 ~~59.2~~	+10	34.1
		12	7	40.3	+10	34.2
		12	7	40	+10	34.1

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5	31.3	6.3	112433	12	4	39.5	+
	-17.8	-3.9	112438	12	8	0.6	+
	128.3		12 2 22.0 +11 9.2				
	-73.0						
	~~-32.0~~		12 5 43.1 +11 19.4				
			2 17.5 -15				
6	30.0	7.4					
	-19.2	-2.8					
	123.0						
	-78.7						
	~~-37.7~~						
7	6.0	-6.8	112438	12	8	0.8	+
	-22.8	25.2	102394	12	9	57.8	+
	24.6		12 5 43.1 +11 19.4				
	-93.5		12 7 40.1 +10 47.5				
			2 17.7 -15				
8	15.2	-1.9					
	-13.4	29.8					
	62.3						
	-54.9						
9	18.1	-20.9					
	-10.5	11.0					
	74.2						
	-43.0						
14	22.9	-29.3					
	-5.6	2.6					
	93.9						
	-23.0						

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+10	54.2	12	6	47.8	+11	0.5
+11	4.4	12	6	48.6	+11	.5
		12	6	47	+11	0.5
		12	6	42.5	+11	1.6
		12	6	41.9	+11	1.6
		12	6	42	+11	1.6
+11	4.4	12	8	25.4	+10	57.6
+10	32.5	12	8	24.3	+10	57.7
		12	8	25	+10	57.6
		12	9	3.1	+11	2.5
		12	9	2.9	+11	2.3
		12	9	3	+11	2.4
		12	9	15.0	+10	43.5
		12	9	14.8	+10	43.5
		12	9	15	+10	43.5
		12	9	34.7	+10	35.1
		12	9	34.8	+10	35.1
		12	9	35	+10	35.1

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20	27.3	-9.8	12	8	0.8
	-1.3	31.2	12	9	57.8
	111.9				
	-5.3				
19	25.1	-4.8			
	-3.6	27.2			
	102.9				
	-14.8				
18	24.2	-4.7			
	-4.4	27.2			
	99.2				
	-18.0				
17	25.5	-5.3			
	-3.2	26.6			
	104.6				
	-13.1				
16	23.4	-11.8			
	-5.2	20.2			
	95.9				
	-21.3				
254	18.7	-4.6			
	-9.8	27.3			
	76.7				
	-40.2				

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+11	4.4	12	9	52.7	+11	3.6
+10	32.5	12	9	52.5	+11	3.7
		12	9	53	+11	3.6
		12	9	43.7	+10	59.6
		12	9	43.0	+10	59.7
		12	9	43	+10	59.6
		12	9	40.0	+10	59.7
		12	9	39.8	+10	59.7
		12	9	40	+10	59.7
		12	9	45.4	+10	59.1
		12	9	44.7	+10	59.1
		12	9	45	+10	59.1
		12	9	36.7	+10	52.6
		12	9	36.5	+10	52.7
		12	9	37 ~~35~~	+10	52.6
		12	9	17.5	+10	59.8
		12	9	17.6	+10	59.8
		12	9	18	+10	59.8

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10	8.2	0.3	102393	12	8	36.9	+10
	-11.7	-13.8	102394	12	9	58.1	+1
	33.6		12 6 18.9 +10 33.5				
	-48.0		12 7 40.1 +10 47.5				
			2 18.0 -15				
251	13.3	4.0					
	-6.6	-9.9					
	54.5						
	-27.1						
11	12.8	-3.4	102393	12	8	36.9	+
	-17.8	21.2	102396	12	10	41.9	+
	52.5		12 6 18.9 +10 33.5				
	~~-73.0~~						
	~~-32.0~~		12 8 23.9 +10 9.0				
			2 18.0 -15				
12	22.4	-1.7					
	-8.2	22.9					
	~~-~~91.8						
	-33.6						
253	16.8	-4.6					
	-13.7	19.9					
	68.9						
	-56.2						
N.G.C. 4207	25.9	-9.8					
	4.6	14.8					
	106.2						
	-18.9						

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+10	~~18.5~~	12	9	10.5	+10	18.8
+10	32.5	12	9	10.1	+10	18.7
		12	9	10	+10	18.8
		12	9	31.4	+10	22.5 ~~14.5~~
		12	9	31.0	+10	22.6
		12	9	31.2	+10	22.6
+10	18.5	12	9	29.4	+10	15.1
+9	54.0	12	9	28.9	+10	15.2
		12	9	29	+10	15.2
		12	10	8.7	+10	16.8
		12	10	8.3	+10	16.9
		12	10	8.9	+10	16.8
		12	9	45.8	+10	13.9
		12	9	45.7	+10	13.8
		12	9	46	+10	13.9
		12	10	23.1	+10	8.7
		12	10	23.0	+10	8.8
		12	10	23	+10	8.8

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	X	Y					
Orientation 13	0.2 0.5	-14.1	102394	12	9	58.1	+1
	-10.8 -11.5	24.5	102396	12	10	47.3	+
	0.8 2.0		12 7 40.1 +10 47.5				
	-44.3 -47.1		12 8 29.3 +10 9.0				
			2 18.0 -15				
252	8.7	-0.4	102394	12	9	58.1	+1
	-23.8	12.6	102399	12	12	11.3	+1
	35.7		12 7 40.1 +10 47.5				
	-97.6		12 9 53.3 +10 34.4				
	-56.6		2 18.0 -15				
26	31.8	-7.9					
	-0.8	5.2					
	130.4						
	-3.3						
15	5.9	1.6	102394	12	9	58.1	+1
	-28.6	-7.3	102400	12	12	19.8	+1
	24.2		12 7 40.1 +10 47.5				
	-117.4		12 10 1.8 +10 56.4				
			2 18.0 -15				
I.C. 3092	21.7	3.6					
	-12.8	-5.3					
	89.0						
	-52.5						
IC 3074	0.8	-10.2	112442	12	10	36.8	+11
	-24.2	33.4	102400	12	12	19.5	+1
	3.3		12 8 19.1 +11 40.1				
	-99.2		12 10 1.8 +10 56.4				
			2 17.7 -15				

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			10	0.1		
+10	32.5	12	~~8~~	~~58.9~~	+10	18.4
+9	54.0	12	10	0.2	+10	18.5
		12	10	0	+10	18.4
					~~58~~	
+10	32.5	12	10	33.8	+12	~~32.1~~
+10	19.4	12	10	33.7	+10	32.0
		12	10	34	+10	32.0
		12	12	8.5	+10	24.6
		12	12	8.0	+10	24.6
		12	12	8	+10	24.6
+10	32.5	12	10	22.3	+10	34.1
+10	41.4	12	10	22.4	+10	34.1
		12	10	22	+10	34.1
		12	11	27.1	+10	36.1
		12	11	27.3	+10	36.1
		12	11	27	+10	36.1
+11	25.1	12	10	40.1	+11	15.1
+10	41.4	12	10	40.3	+11	14.8
		12	10	40	+11	15.0

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48	9.6	-3.8	12	10	36.8
	-15.4	39.8	12	12	19.5
	39.4				
	-63.1				
49	14.0	-12.7			
	-11.0	30.9			
	57.4				
	-45.1				
23	11.1	-27.7			
	-13.9	16.1			
	45.5				
	-57.0				
24	18.5	-26.3			
	-6.5	17.4			
	75.8				
	-26.6				
21	3.5	-35.7			
	-21.4	8.3			
	14.4				
	-87.7				
22	4.3	-35.6			
	-20.7	8.3			
	17.6				
	-84.9				

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				16.2			
+11	25.1	12	11	~~57.4~~	+11	21.3	
+10	41.4	12	11	16.4	+11	21.2	
		12	11	16	+11	21.2	
		12	11	34.2	+11	12.4	
		12	11	34.4	+11	12.3	
		12	11	34	+11	12.4	
		12	11	22.3	+10	57.4	
		12	11	22.5	+10	57.5	
		12	11	22	+10	57.4	
		12	11	52.6	+10	58.8	
		12	11	52.9	+10	58.8	
		12	11	53	+10	58.8	
		12	10	51.2	+10	49.4	
		12	10	51.8	+10	49.7	
		12	10	52	+10	49.6	
		12	10	54.4	+10	49.5	
		12	10	54.6	+10	49.7	
		12	10	54	+10	49.6	

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25	13.9	-39.2		12	10	36.8 (+
	-11.2	4.7		12	12	19.5 +
	57.0					
	-45.9					
27	13.8	-3.8	102404	12	13	8.5 +
	-3.1	21.1	102406	12	14	19.1 +
	56.6		12 10 50.5 +10 41.1			
	-12.7		12 12 1.1 +10 16.2			
			2 18.0 -15			
28	7.7	1.8	102404	12	13	8.2 +
	-16.9	-34.3	112450	12	14	49.6 +
	31.6		12 10 50.5 +10 41.1			
	-69.3		12 12 31.9 +11 17.1			
			2 17.7 -15			
29	9.9	7.7				
	-14.8	-28.3				
	40.6					
	-60.7					
	~~-58.2~~					
33	5.4	18.8				
	-19.3	-17.2				
	22.1					
	-79.1					
30	0.2	29.0				
	-24.5	-7.0				
	0.8					
	-100.4					

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+11	25.1	12	11	33.8	+10	45.9	
+10	41.4	12	11	33.4	+10	46.1	
		12	11	34	+10	46.0	
+10	26.1	12	14	5.1	+10	23.3	
+10	1.2	12	14	6.4	+10	22.3	
		12	14	6	+10	22.3	
+10	26.1	12	13	39.8	+10	27.9	
+11	2.1	12	13	40.3	+10	27.8	
		12	13	40	+10	27.8	
		12	13	48.8	+10	33.8	
		12	13	48.9 ~~+.4~~	+10	33.8	
		12	13	49	+10	33.8	
		12	13	30.3	+10	44.9	
		12	13	30.5	+10	44.9	
		12	13	30	+10	44.9	
		12	13	9.0	+10	55.1	
		12	13	9.2	+10	55.1	
		12	13	9	+10	55.1	

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34	18.5	27.6		12	13	8,2	+
	-6.2	-8.4		12	14	49.6	-
	75.8						
	-25.4						
35	44.7	-22.9	112442	12	10	36.6	+
	-16.7	0.1	112450	12	14	49.4	+
	183.3		12 8 19.1 +11 40.1				
	-68.5		12 12 31.9 +11 17.1				
			2 17.5 -15				
36	45.2	-21.0					
	-16.3	2.0					
	185.3						
	-66.8						
53	37.5	-12.2					
	-23.8	10.9					
	153.8						
	-97.6						
54	34.7	-7.8					
	-26.8	15.2					
	142.3						
	109.9						
55	46.2	-11.7					
	-15.3	11.3					
	189.4						
	-62.7						

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+ 10	26.1	12	14	24.0	+10	53.7 ~~8.5~~	
+ 11	2.1	12	14	24.2	+ 10	53.7	
		12	14	24	+ 10	53.7	
+ 11	25.1	12	~~14~~ 13	39.9	+11	2.2	
+ 11	2.1	12	13	40.9	+11	2.2	
		12	13	40	+11	2.2	
		12	13	41.9	+11	4.1	
		12	13	42.6	+11	4.1	
		12	13	42	+11	4.1	
		12	13	10.4	+11	12.9	
		12	13	11.8	+11	13.0	
		12	13	11	+11	13.0	
		12	12	58.9	+11	17.39	
		12	12	59.5	+11	17.3	
		12	12	59	+11	17.3	
		12	13	46.0	+11	13.4	
		12	13	45.7	+11	13.4	
		12	13	46	+11	13.4	

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56.	46.0	-6.0		12	10	36.6	+
	-15.4	16.9		12	14	49.4	+
	188.6						
	-63.1						
I.C. 3107	30.4	-1.4					
	-30.9	21.6					
	124.6						
	-126.7						
258	3.2	15.3	102400	12	12	19.5	+
	-13.5	-27.9	112445	12	13	27.8	+
	13.1		12 10 1.8 +10 56.4				
	-55.4		12 11 10.1 +11 39.3				
			2 17.7 -15				
31	27.3	11.4	102404	12	13	8.5	+
	-5.2	-0.0	102413	12	15	21.6	+
	111.9		12 10 20.5 +10 41.1				
	-21.3		12 13 3.6 +10 52.5				
			2 18.0 -15				
58	0.6	6.0	112445	12	13	27.4	+
	-21.0	-40.5	122449	12	14	55.8	+
	2.5		12 11 10.1 +11 39.3				
	-86.1		12 12 38.5 +12 25.8				
			2 17.3 -15				
61	9.2	15.7					
	-12.3	-30.8					
	37.7						
	-50.4						

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+11	25.1	12	13	45.2	+11	19.1
+11	2.1	12	13	46.9	+11	19.0
		12	13	46	+11	19.0
		12	12	41.2	+11	23.7
		12	12	42.7	+11	23.7
		12	12	42	+11	23.7
+10	41.4	12	12	32.6	+10	56.7
+11	24.3	12	12	32.4	+10	56.4
		12	12	32	+10	56.6
+10	26.1	12	14 (5)	0.4	+10	37.5
+10	37.5	12	15	0.3	+10	37.5
		12	15	0	+10	37.5
+11	24.3	12	13	29.9	+11	30.3
+12	10.8	12	13	29.7	+11	30.3
		12	13	30	+11	30.3
		12	14	5.1		
		12	14	5.4	+11	40.0
		+			+11	40.0
		12	14	5	+11	40.0

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62	14.5	9.2	12	13	27.4 +
	-7.0	-37.4	12	14	55.8 +
	59.4				
	-28.7				
63	19.7	10.2			
	-1.8	-36.4			
	80.8				
	-7.4				
64	16.2	11.7			
	-5.3	-34.8			
	66.4				
	-21.7				
66	8.2	26.8			
	-13.1	-19.8			
	33.6				
	-53.7				
116	20.0	37.2			
	-1.6	-9.4			
	82.0				
	-6.6				
115	19.4	37.4			
	-2.1	-9.2			
	79.5				
	-8.6				

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+11	24.3	12	14	26.8	+11	33.5	
+12	10.8	12	14	27.1	+11	33.4	
		12	14	27	+11	33.4	
				48.2			
		12	14	~~48.6~~	+11	34.5	
		12	14	48.4	+11	34.4	
		12	14	48	+11	34.4	
		12	14	33.8	+11	36.0	
		12	14	34.1	+11	36.0	
		12	14	34	+11	36.0	
		12	14	1.0	+11	51.1	
		12	14	2.1	+11	51.0	
		12	14	2	+11	51.0	
		12	14	49.4	+12	1.5	
		12	14	49.2	+12	1.4	
		12	14	49	+12	1.4	
		12	14	46.9	+12	1.7	
		12	14	47.2	+12	1.6	
		12	14	47	+12	1.6	

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114	13.8	40.8		12	13	27.4	
	-7.8	-5.7		12	14	55.8	
	56.6						
	-32.0						
112	2.4	43.9					
	-19.2	-2.6					
	9.8						
	-78.7						
59	3.3	-6.3	122443	12	12	32.9	+1
	-9.8	15.4	112445	12	13	27.4	+1
	13.5		12 10 15.6 +12 1.2				
	-40.2		12 11 10.1 +11 39.3				
			2 17.3 -15				
57	6.5	-19.7					
	-6.6	2.0					
	26.6 ~~37.3~~						
	-27.1						
60	9.2	0.4	122443	12	12	32.7	+
	-6.4	-33.9	122446	12	13	36.8	+
	37.7		12 10 15.6 +12 1.2				
	-26.2		12 11 19.7 +12 35.6				
			2 17.1 -15				
65	9.5	9.0					
	-6.1	-25.4					
	39.0						
	-25.0						

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+11	24.3	12	14	24.0	+12	5.1
+12	10.8	12	14	23.8	+12	5.1
		12	14	24	+12	5.1
		12	13	37.2	+12	8.2
		12	13	37.1	+12	8.2
		12	13	37	+12	8.2
+11	46.2	12	12	46.4	+11	39.9
+11	24.9	12	12	47.2	+11	39.7
		12	12	47	+11	39.8
		12	12	59.5		
		12	~~13~~	~~10.7~~	+11	26.5
		12	13	0.3	+11	26.3
		12	13	0	+11	26.4
+11	46.2	12	13	10.4	+11	46.6
+12	20.6	12	13	10.6	+11	46.7
		12	13	10	+11	46.6
		12	13	11.7	+11	55.2
		12	13	11.8	+11	55.2
		12	13	12	+11	55.2

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I.C.3128	15.4	30.7		12	12	32.7 +
	-0.2	-3.7		12	13	36.8 +
	63.1					
	-0.8					
50	10.8	1.7	112442	12	10	36.4 +
	-17.4	-19.1	122443	12	12	32.9 +
	44.3		12 8 19.1 +11 40.1			
	-71.3		12 10 15.6 +12 1.2			
			2 17.3 -15			
51	9.8	15.2				
	-18.5	-5.6				
	40.2					
	-75.8					
52	22.0	11.9				
	-6.3	-9.0				
	90.2					
	~~-25.8~~					
	~~-66.8~~					
67	5.3	-4.2	122440	12	11	25.8 +
	-10.7	16.1	122443	12	12	32.7 -+
	21.7		12 9 8.7 +12 21.4			
	-43.9		12 10 15.6 +12 1.2			
			2 17.1 -15			
37	22.9	23.2	112433	12	4	39.5 +
	-18.2	-2.8	112435	12	7	28.3 +
	93.9		12 2 22.0 +11 9.2			
	-74.6		12 5 10.8 +11 35.0			
			2 17.5 -15			

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+11	46.2	12	13	35.8	+12	16.9
+12	20.6	12	13	36.0	+12	16.9
		12	13	36	+12	16.9
+11	25.1	12	11	20.7	+11	26.8
+11	46.2	12	11	21.6	+11	27.1
		12	11	21	+11	27.0
						40.3
		12	11	16.6	+11	~~99~~
		12	11	17.1	+11	40.6
		12	11	17	+11	40.4
		12	12	6.6	+11	37.0
		12	12	7.1	+11	37.2
		12	12	7	+11	37.1
+12	6.4	12	11	47.5	+12	2.2
+11	46.2	12	11	48.8	+12	2.3
		12	11	48	+12	2.2
+10	54.2	12	6	13.4	+11	17.4
+11	20.0	12	6	13.8	+11	17.2
		12	6	14.	+11	17.3

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43	4.8	18.8	112438	12	8	0.6	+
	-33.6	-1.7	112442	12	10	36.6	+
	19.7		12 5 43.1 +11 19.4				
	-137.8		12 8 19.1 +11 40.1				
			2 17.5 -15				
44	13.4	9.2					
	-25.2	-11.5					
	54.9						
	-103.3						
47.	35.5	20.3					
	-2.9	-.3					
	145.6						
	-11.9						
256	4.5	-9.2	122435	12	8	79	+
	-31.8	30.4	112442	12	10	36.6	+
	18.4		12 5 50.4 +12 19.7				
	-130.4		12 8 19.1 +11 40.1				
			2 17.5 -15				
69	3.9	-17.1					
	-32.4	22.5					
	16.0						
	-132.8						
41	0.9	-22.6					
	-35.4	17.1					
	3.7						
	-145.1						

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+ 11	4.4	12	8	20.3	+ 11	23.2		
+ 11	25.1	12	8	18.8	+ 11	23.4		
		12	8	20	+ 11	23.3		
		12	8	55.5	+ 11	13.6		
		12	8	53.3	+ 11	13.6		
		12	8	54	+ 11	13.6		
		12	10	26.2	+ 11	24.7		
		12	10	24.7	+ 11	24.8		
		12	10	25	+ 11	24.8		
+ 12	4.7	12	8	26.3	+ 11	55.5		
+ 11	25.1	12	8	26.2	+ 11	55.5		
		12	8	26.4	+ 11	55.5		
		12	8	23.9	+ 11	47.6		
		12	8	24.0	+ 11	47.6		
		12	8	24	+ 11	47.6		
		12	8	11.6	+ 11	42.1		
		12	8	11.5	+ 11	42.2		
		12	8	12	+ 11	42.2		

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45	22.9	−36.3		12	8	7.9	+
	−13.4	3.3		12	10	36.6	+
	93.9						
	−54.9						
46	23.5	−19.0					
	−12.8	20.5					
	~~96.4~~ 93.1						
	−52.5 ~~−52.1~~						
68	35.5	−12.7					
	−0.8	26.7					
	145.6						
	−3.3						
I.C. 3068	31.5	−1.1					
	−4.7	38.4					
	129.1						
	−19.3						
38	27.1	−11.7	12 24 28	12	4	10.7	+
	−21.2	19.2	11 24 35	12	7	28.8	+
	111.1		12 1 52.7 +12 5.7				
	−86.9		12 5 10.8 +11 35.0				
			2 18.0 −15				
39	22.7	−3.1					
	−25.7	27.8					
	93.1						
	−105.4						

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+ 12	4.7	12	9	41.8	+ 11	28.4
+ 11	25.1	12	9	41.7	+ 11	28.4
		12	9	42	+ 11	28.4
		12	9	41.0 (4.3)	+ 11	45.7
		12	9	44.1 (4.3)	+ 11	45.6
		12	9	44	+ 11	45.6
		12	10	33.5	+ 11	52.0
		12	10	33.3	+ 11	51.8
		12	10	33	+ 11	51.9
		12	10	17.0	+ 12	3.6
		12	10	17.3	+ 12	3.5
		12	10	17	+ 12	3.6
+ 11	50.7	12	6	1.8	+ 11	39.0 ~~31.7~~
+ 11	20.0	12	6	1.9	+ 11	39.2
		12	6	2	+ 11	39.1
		12	5	43.8	+ 11	47.6 ~~22.9~~
		12	5	43.4	+ 11	47.8 ~~23.1~~
		12	5	44	+ 11	47.7

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40	8.3	-7.3	122433	12	6	52.7	+1
	-8.3	38.8	112438	12	8	1.1	+
	34.0		12 4 34.7 +12 5.6				
	-34.6		12 5 43.1 +11 19.4				
			2 18.0 -15				
I.C. 3040	8.7	-13.0					
	-7.8	33.0					
	35.7						
	-32.0						
N.G.C. 4178	11.7	-25.6					
	-4.8	20.5					
	48.0						
	-19.7						
42	15.9	-27.3					
	-0.7	18.7					
	65.2						
	-2.9						
	8.2						
I.C. 3038	9.8	3.7	122433	12	6	52.7	+
	-10.1	-10.1	122435	12	8	8.4	+
	~~38.1~~ 33.6		12 4 34.7 +12 5.6				
	-41.4		12 5 50.4 +12 19.7				
			2 18.0 -15				
70	14.8	5.1 ~~4.8~~					
	-3.6	-8.8					
	60.7						
	-14.8						

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+11	50.6	12	7	26.7	+11	43.3
+11	4.4	12	7	~~26.5~~ 27.1	+11	43.2
		12	7	27	+11	43.2
		12	7	28.4	+11	37.6
		12	7	29.1	+11	37.4
		12	7	29	+11	37.5
		12	7	40.7	+11	25.0
		12	7	41.4	+11	24.9
		12	7	41	+11	25.0
		12	7	57.9	+11	23.3
		12	7	58.2	+11	23.1
		12	7	58	+11	23.2
+11	50.6	12	7	26.3 ~~26.8~~	+11	54.3
+12	4.7	12	7	27.0	+11	54.6
		12	7	27	+11	54.4
		12	7	53.4	+11	55.4
		12	7	53.6	+11	55.9
		12	7	54	+11	55.8

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74	~~13.4~~ 13.2	9.3	Star	12 6 52.7	+
	~~-5.6~~	~~-4.5~~	Reject.	12 8 8.4	+
	57.0				
	-23.0				
257	15.8	9.5			
	-2.5	-4.2			
	64.8				
	-10.2				
71	6.3	-27.0	122432	12 5 8.7	+
	-19.2	7.1	122433	12 6 52.7	+
	25.8		12 2 50.7 +12 39.6		
	-78.7		12 4 34.7 +12 5.6		
			2 18.0 -15		
72	13.8	-24.7			
	-11.5	9.3			
	56.6				
	-47.1				
73	21.4	-23.7			
	-3.9	10.2			
	87.7				
	-16.0				
80	22.1	-3.0			
	-3.2	31.0			
	90.6				
	-13.1				

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+11	50.6	12	7	49.7	
+12	4.7			.4	
		12	7	57.5	
		12	7	58.2	
		12	7	58	
+12	24.6	12	5	34.5	
+11	50.6	12	5	34.0	
		12	5	34	
		12	6	5.3	
		12	6	5.6	
		12	6	5	
		12	6	36.4	
		12	6	36.7	
		12	6	37	
		12	6	39.8	
		12	6	39.6	
		12	6	39	

+11	59.9
+12	0.2
+12	40.1
+12	.5
+12	0.3
+11	57.6
+11	57.7
+11	57.6
+11	59.9
+11	59.9
+11	59.9
+12	0.9
	48.3
+12	0.8
+12	0.8
+12	21.6
+12	21.6
+12	21.6

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I.C. 3028	12.4	-15.8	122431	12	4	38.7	+
	-38.8	14.6	122435	12	8	8.4	+
	50.8		12 2 20.7 +12 50.1				
	-159.1		12 5 50.4 +12 19.7				
			2 18.0 -15				
77	17.2	-7.3					
	-33.9	22.8					
	70.5						
	-139.0						
	8.8						
81	~~39.4~~ 2.4	-18.3					
I Identification	~~-17.5~~ 159.1	12.1					
	~~161.5~~ 50.8						
	~~-48.4~~						
76	34.3	-27.0					
	-16.9	3.3					
	140.6						
	-69.3						
75	43.2	-28.1					
	-8.0	2.2					
	177.1						
	-32.8						
I.C. 768	9.7	-19.4	132502	12	6	2.3	+
	-19.3	12.2	122434	12	8	1.9	+
	39.8		12 3 44.3 +13 16.5				
	-79.1		12 5 43.9 +12 44.7				
			2 18.0 -15				

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+12	35.1	12	5	29.5	+12	19.3	
+12	4.7	12	5	29.3	+12	19.3	
		12	5	29	+12	19.3	
		12	5	49.2	+12	28.8	(7)
		12	5	49.4	+12	27.5	
		12	5	49	+12	27.6	
		12	7	17.8 ~~20.2~~	+12	16.8	
		12	7	17.6 ~~20.0~~	+12	16.8	
		12	7	18.	+12	16.8	
		12	6	59.3	+12	8.1	
		12	6	59.1	+12	8.0	
		12	6	59.	+12	8.0	
		12	7	35.8	+12	7.0	
		12	7	35.6	+12	6.9	
		12	7	36	+12	7.0	
+13	1.5	12	6	41.1	+12	42.1 ~~31.9~~ 41.9	
+12	29.7	12	6	42.8	+12	~~31.4~~	
		12	6	42	+12	42.0	

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79	5.6	−18.2	12	6	2.3	+
	−23.5	13.5	12	8	1.9	+
	23.0					
	96.4					
	−~~96~~					
78	3.4	−24.0				
	−25.7	7.7				
	13.9					
	−105.4					
I.C. 769	20.7	−20.9				
	−8.3	11.0				
	84.9					
	−34.0					
82	18.6	−29.9				
	−10.5	1.7				
	76.3					
	−43.0					
I.C. 3039	20.7	−9.5				
	−8.4	22.2				
	84.9					
	−34.4					
93	24.7	−5.2				
	−4.4	26.4				
	101.3					
	−18.0					

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+13	1.5	12	6	25.3	+12	43.3
+12	29.7	12	6	25.5	+12	43.2
		12	6	25	+12	43.2
		12	6	16.2	+12	37.5
		12	6	16.5	+12	.37.4
		12	6	16	+12	37.4
		12	7	27.2	+12	41.3
		12	7	27.9	+12	40.7
		12	7	28	+12	41.0
		12	7	18.6	+12	31.6
		12	7	18.9	+12	31.4
		12	7	19	+12	31.5
		12	7	27.2	+12	52.0
		12	7	27.5	+12	51.9
		12	7	27	+12	52.0
		12	7	43.6	+12	56.3
		12	7	43.9	+12	56.1
		12	7	44	+12	56.2

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83	26.3	-26.0		12 6 2.3	+
	-2.8	5.6		12 8 1.9	+
	107.8				
	-11.5				
	~~+15.6~~				
84	0.8	0.8	122434	12 8 19	+
	-12.6	-11.6	122436	12 8 58.4	+
	3.3		12 5 43.9 +12 44.7		
	-51.6		12 6 40.4 +12 57.2		
			2 18.0 -15		
85	0.2	4.6			
	-13.2	-7.8			
	0.8				
	-54.1				
86	5.3	21.4	122435	12 8 84	+
	-41.8	-6.6	122439	12 11 20.7	+
	21.7		12 5 50.4 +12 19.7		
	-171.4		12 9 2.7 +12 47.7		
			2 18.0 -15		
87	3.2	6.5			
	-43.9	-21.5			
	13.1				
	-178.0				
88	17.8	6.8			
	-24.2	-21.2			
	73.0				
	-119.7				

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+ 13	1.5	12	7	50.1	+ 12	35.5	
+ 12	29.7	12	7	50.4	+ 12	35.3	
		12	7	50	+ 12	35.4	
		12	8	5.2	+12	30.5	
+12	29.7	~~*~~	~~12~~	~~33.0~~	~~+12~~	~~8~~	~~6.5~~
+12	42.2	12	8	6.8	+12	30.6	
		12	8	6	+12	30.6	
		12	8	2.7	+12	34.3	
		12	8	4.3	+12	34.4	
		12	8	4	+12	34.4	
+12	4.7	12	8	30.1	+12	26.1	
+ 12	32.7	12	8	29.3	+12	26.1	
		12	8	30	+12	26.1	
		12	8	21.5	+ 12	11.2	
		12	8	22.7	+ 12	11.2	
		12	8	22	+ 12	11.2	
		12	9	21.4	+12	11.5	
		12	9	21.0	+12	11.5	
		12	9	21	+12	11.5	

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89	23.4	0.8		12 8 8.4	
	-23.6	-27.2		12 11 20.7	
	95.9				
	-96.8				
90	19.5	20.3			
	-27.3	-7.7			
	80.0				
	-111.9				
91	22.3	26.2			
	-24.6	-1.8			
	91.4				
	-100.9				
I.C. 3079	41.4	0.9			
	-5.5	-27.1			
	169.7				
	-22.6				
~~92~~	~~29.5~~	~~+7.1~~	13 2 5 0 2	12 6 2.3	+
Speck			1 2 2 4 3 6	12 8 58 4	+
			12 3 44.3 +13 16.5		
			12 6 40.4 +12 57.2		
			2 18.0 -15		
96	39.3	-6.8			
	-3.6	12.4			
	161.1				
	-14.8				

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12	4.7	12	9	44.3	+12	5.5
12	32.7	12	9	43.9	+12	5.5
		12	9	44	+12	5.5
		12	9	28.4	+12	25.0
		12	9	28.8	+12	25.0
		12	9	29	+12	25.0
		12	9	39.8	+12	30.9
		12	9	39.8	+12	30.9
		12	9	40	+12	30.9
		12	10	58.1	+12	5.6
		12	10	58.1	+12	5.6
		12	10	58	+12	5.6
+13	1.5					
+12	42.2					
		12	8	43.4	+12	54.7 ~~42.6~~
		12	8	43.6	+12	54.6
		12	8	44	+12	54.6

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I.C. 3097	4.0	-0.7	122436	12	8	58.4	+
	-30.7	8.8	122439	12	11	20.7	+
	16.4		12 6 40.4 +12 57.2				
	-125.9		12 9 2.7 +12 47.7				
			2 18.0 -15				
I.C. 3055	4.3	-3.4					
	-30.3	6.2					
	17.6						
	-124.2						
N 4200	5.0	-19.9	132509	12	9	17.4	+
	-25.0	11.5	122439	12	11	20.7	+
	20.5		12 6 59.4 +13 19.0				
	-102.5		12 9 2.7 +12 47.7				
			2 18.0 -15				
I.C. 3063	10.6	-29.7					
	-19.4	1.7					
	43.5						
	-79.5						
98	14.5	-21.9					
	-15.4	9.4					
	59.4						
	-63.1						
99	15.4	-14.5					
	-14.6	16.8					
	+63.1						
	-59.9						

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+12	42.2	12	9	14.8	+12	41.5
+12	32.7	12	9	14.8	+12	41.5
		12	9	15	+12	41.5
		12	9	16.0	+12	38.8
		12	9	16.5	+12	38.9
		12	9	16	+12	38.8
+13	4.0	12	9	37.9	+12	44.1
+12	32.7	12	9	38.2	+12	44.2
		12	9	38	+12	44.2
		12	10	0.9	+12	34.3
		12	10	1.2	+12	34.4
		12	10	1	+12	34.4
		12	10	16.8	+12	42.1
		12	10	17.6	+12	42.1
		12	10	17	+12	42.1
		12	10	20.5	+12	49.5
		12	10	20.8	+12	49.5
		12	10	21	+12	49.5

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100	17.6	-17.3	12	9	17.4
	-12.4	13.9	12	11	20.7
	72.2				
	-50.8				
101	18.2	-17.5			
	-11.8	13.8			
	74.6				
	-48.4				
102	19.2	-16.6			
	-10.9	14.8			
	78.7				
	-44.7				
103	29.0	-15.9			
	-1.0	15.4			
	118.9				
	-4.1				
104	29.2	-20.8			
	-0.8	10.5			
	119.7				
	-3.3				
95					

Defect

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+13	4.0	12	10	29.6	+12	46.7	
+12	32.7	12	10	29.9	+12	46.6	
		12	10	30	+12	46.6	
		12	10	32.0	+12	46.5	
		12	10	32.3	+12	46.5	
		12	10	32	+12	46.5	
		12	10	36.1	+12	47.4	
		12	10	36 ⊕	+12	47.5	
		12	10	36	+12	47.4	
		12	11	16.3	+12	48.1	
		12	11	16.6	+12	48.1	
		12	11	16	+12	48.1	
		12	11	17.1	+12	43.2	
		12	11	17.4	+12	43.2	
		12	11	17	+12	43.2	

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105	0.8	5.8	122439	12	11	20.7	+
	−27.5	−22.9	132519	12	13	17.4	+
	+3.3		12 9 2.7 +12 47.7				
	−112.8		12 10 59.4 +13 16.5				
			2 18.0 −15				
107	10.1	0.3					
	−18.3	−28.6					
	41.4						
	−75.0						
108	13.9	4.0					
	−14.5	−25.0					
	57.0						
	−59.4						
123	11.9	14.5					
	−16.5	−14.4					
	48.8						
	−67.6						
124	17.2	16.4					
	−11.3	−12.4					
	70.5						
	−46.3						
138	22.5	23.3					
	−6.0	−5.3					
	92.2						
	−24.6						

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+12	32.7	12	11	24.0	+12	38.5
+13	1.5	12	11	24.6	+12	38.4
		12	11	24	+12	38.4
		12	12	2.1	+12	33.0
		12	12	2.4	+12	32.9
		12	12	2	+12	33.0
		12	12	17.7	+12	36.7
		12	12	18.0	+12	36.5
		12	12	18	+12	36.6
		12	12	9.5	+12	47.2
		12	12	9.8	+12	47.1
		12	12	10	+12	47.2
		12	12	31.2	+12	49.1
		12	12	31.1	+12	49.1
		12	12	31	+12	49.1
		12	12	52.9	+12	56.0
		12	12	52.8	+12	56.2
		12	12	53	+12	56.1

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259	17.2	19.3	12	11 .	20.7	+
	-11.2	-9.7	12	13	17.4	+
	70.5					
	-45.9					
260	18.1	16.3				
	-10.5	-12.6				
	74.2					
	-43.0					
261	22.8	20.5				
	-5.6	-8.5				
	93.5					
	-23.0					
262	20.8	22.2				
	-7.7	-6.7				
	85.3					
	-31.6					
I C. 3100	9.7	18.2				
	-18.9	-10.8				
	39.8					
	-77.5					
I.C. 3099	10.5	28.0				
	-17.9	-6.9				
	43.0					
	-73.4					

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+ 12	32.7	12	12	31.2	+12	52.0
+ 13	1.5	12	12	31.5	+12	51.8
		12	12	31	+12	51.9
		12	12	34.9	+12	49.0
		12	12	34.4	+12	48.9
		12	12	35	+12	49.0
		12	12	54.2	+12	53.2
		12	12	54.4	+12	53.0
		12	12	54	+12	53.1
		12	12	46.0	+12	54.9
		12	12	45.8	+12	54.8
		12	12	46	+12	54.8
		12	12	0.5	+12	50.9
		12	11	59.9	+12	50.7
		12	12	0	+12	50.8
		12	12	3.7	+13	0.7
		12	12	3.0	+13	0.6
		12	12	3	+13	0.6

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I.C. 3105	16.5	24.0		12 11 20.7	+
	-12.0	-4.9		12 13 17.4	+
	67.6				
	-49.2				
106	3.6	-0.3	122439	12 11 20.7	+
	-29.7	11.2	122446	12 13 37.7	+
	14.8		12 9 2.7 +12 47.7		
	-121.8		12 11 19.7 +12 35.6		
			2 18.0 -15		
I.C.3101	13.0	-2.7			
	-20.3	8.9			
	53.3				
	-83.2				
109	26.3	-4.3			
	-6.9	7.2			
	107.8				
	-28.3				
110	28.7	-1.6			
	-4.7	9.9			
	117.7				
	-19.3				
I.C.3127	31.4	-8.1			
	-1.8	4.4			
	128.7				
	-7.4				

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+12	32.7	12	12	28.3	+12	56.7
+13	1.5	12	12	28.2	+12	56.6
		12	12	28	+12	56.6

+12	32.7	12	11	35.5	+12	32.4
+12	20.6	12	11	35.9	+12	31.8
		12	11	36	+12	32.1

12	12	14.0	+12	30.0
12	12	14.4	+12	29.5
12	12	14	+12	29.8

12	13	8.5	+12	28.4
12	13	9.4	+12	27.8
12	13	9	+12	28.1

12	13	18.4	+12	31.1
12	13	18.4	+12	30.5
12	13	18	+12	30.8

12	13	29.4	+12	24.6
12	13	30.3	+12	25.0
12	13	29	+12	24.8

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113	6.5	-5.3	122446	12	13	37.7	+
	-12.6	4.4	122449	12	14	56.5	+
	26.6		12 11 19.7 +12 35.6				
	-51.7		12 12 38.5 +12 25.8				
			2 18.0 -15				
117	10.8	-1.4					
	-8.3	8.3					
	44.3						
	-34.0						
I.C. 3159	17.0	-7.6					
	-2.2	2.2					
	69.7						
	-9.0						
111	0.6	5.8	122446	12	13	37.7	+
	-26.5	-14.2	122451	12	15	28.3	+
	+2.5		12 11 19.7 +12 35.6				
	-108.6		12 13 10.3 +12 55.2				
			2 18.0 -15				
118	4.1	14.2					
	-23.1	-5.8					
	16.8						
	-94.7						
119	6.9	11.8					
	-20.2	-8.2					
	28.3						
	-82.8						

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+12	20.6	12	14	4.3	+12	15.3
+12	10.8	12	14	4.8	+12	15.2
		12	14	5	+12	15.2
		12	14	22.0	+12	19.2
		12	14	22.5	+12	19.1
		12	14	22	+12	19.2
		12	14	47.4 ~~30.3~~	+12	13.0
		12	14	47.5	+12	13.0
		12	14	47	+12	13.0
+12	20.6	12	13	40 ~~39~~.2	+12	26.4
+12	40.2	12	13	39.7	+12	26.0
		12	13	40 ~~39~~	+12	26.2
		12	13	54.5	+12	34.8
		12	13	53.6	+12	34.4
		12	13	54	+12	34.6
		12	14	6.0	+12	32.4
		12	14	5.5	+12	32.0
		12	14	6	+12	32.2 ~~1~~

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120	8.8	9.4	12 13 37.7	+1
	-18.2	-10.4	12 15 28.3	+1
	36.1			
	-74.6			
121	13.6	12.1		
	-13.4	-7.8		
	55.8			
	-54.9			
~~122~~	8.6	13.2		
I.C. 3147	-18.4	-6.7		
	35.3			
	-75.4			
265	15.4	4.5		
	-11.6	-15.2		
	63.1			
	-47.6			
264	10.4	16.2		
	-16.6	-3.6		
	42.6			
	-68.1			
I.C. 3147	9.6	14.6		
	-7.4	-5.3		
	39.4			
	-71.3			

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+12	20.6	12	14	13.8	+12	30.0
+12	40.2	12	14	13.7	+12	29.8
		12	14	14	+12	29.9
		12	14	33.5	+12	32.7
		12	14	33.4	+12	32.4
		12	14	33	+12	32.6
		12	14	13.0	+12	33.8
		12	14	12.9	+12	33.5
		12	14	13	+12	33.6
		12	14	40.8	+12	25.1
		12	14	40.7 ~~59~~	+12	25.0
		12	14	41	+12	25.0
		12	14	20.3	+12	36.8
		12	14	20.2	+12	36.6
		12	14	20.	+12	36.7
		12	14	17.1	+12	35.2
		12	14	17.0	+12	34.9
		12	14	17	+12	35.0

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	✓						
I.C. 3137	8.0	−0.2	132519	12	13	16.9	+
	−24.2	20.8	122451	12	15	27.8	+
	32.8		12 10 59.4 +13 16,5				
	−99.2		12 13 10,3 +12 55.2				
			2 17.5 −15				
I.C. 3138	8.1	−1.7					
	−23.9	19.4					
	33.2						
	−98.0						
132	5.1	−5.1					
	−26.9	15.9					
	20.9						
	−110.3						
263	5,4	−6.6					
	−26.6	14,5					
	22.1						
	−109.1						
125	4.7	−13.2					
	−27.3	7.8					
	19.3						
	−119.						
I.C. 3149	14.8	−10.4					
	−17.2	10.7					
	60.7						
	−70.5						

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+13	1.5	12	13	49.7 ✓	+13	1.8 ✓
+12	40.2	12	13	48.6	+13	1.0
		12	13	49 ✓	+13	1.2 ✓
		12	13	50.1	+12	59.8
		12	13	49.8 ✓	+12	59.6 ✓
		12	13	50 ✓	+12	59.7 ✓
				37.8		
		12	13	~~6.8~~ ✓	+12	56.4
					+12	56.1 ✓
		12	13	37.5		
		12	13	38 ✓	+12	56.2 ✓
					+12	54.9 ✓
		12	13	39.0 ✓	+12	54.7
		12	13	38.7		
		12	13	39 ✓	+12	54.8 ✓
						48.3
		12	13	36.2	+12	~~14.7~~
		12	13	35.9 ✓	+12	48.0 ✓
		12	13	36 ✓	+12	48.2 ✓
		12	14	17.6	+12	51.1
		12	14	17.3 ✓	+12	50.9 ✓
		12	14	17 ✓	+12	50.0 ✓

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	✓					
I.C. 3157	20.7	−3.2	12	13	16.9	+
	−11.3	17.8	12	15	27.8	+
	84.9					
	−46.3					
131	18.9	−4.2				
	−13.1	16.8				
	77.5					
	−53.7					
130	18.7	−5.0				
	−13.4	16.0				
	76.7					
	−54.9					
129	25.2	−5.8				
	−6.8	15.3				
	103.3					
	−27.9					
128	31.6	−5.2				
	−0.4	15.8				
	129.6					
	−1.6					
127	28.8	−17.4				
	−3.1	3.7				
	118.1					
	−12.7					

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+13	1.5	12	14	41.8	+12	58.3
+12	40.2	12	14	41.5	+12	58.0
		12	14	42	+12	58.2
		12	14	34.4	+12	57.3
		12	14	34.1	+12	57.0
		12	14	34	+12	57.2
		12	14	33.6	+12	56.5
		12	14	33.9	+12	56.2
		12	14	33	+12	56.4
		12	15	0.2	+12	55.7
		12	14	59.9	+12	55.5
		12	15	0	+12	55.6
		12	15	26.5	+12	56.3
		12	15	26.2	+12	56.0
		12	15	26	+12	56.2
		12	15	15.0	+12	44.1
		12	15	15.1	+12	43.9
		12	15	15	+12	44.0

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126	9.9	−17.3		12	13	16.9	+
	−22.1	3.7		12	15	27.8	+
	40.6						
	−90.6						
146	5.3	1.6	13 25 12	12	10	34.4	+
	−31.2	−19.8	13 25 18	12	13	4.3	+
	21.7		12 8 16.7 +13 16.8				
	−127.9		12 10 46.6 +13 38.1				
			2 17.7 −15				
145	10.0	3.3					
	−26.5	−18.1					
	41.0						
	−108.6						
143	11.0	6.3					
	−25.5	−15.2					
	45.1						
	−104.6						
144	8.6	9.7					
	−28.0	−11.7					
	35.3						
	−114.8						
142	13.4	6.7					
	−23.1	−14.6					
	54.9						
	−94.7						

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+13	1.5	12	13	57.5	+12	44.2	
+12	40.2	12	13	57.2 ✓	+12	43.9 ✓	
		12	13	57 ✓	+12	44.0 ✓	
+13	1.8	12	10	56.1	+13	3.4	
+13	23.1	12	10	56.4 ✓	+13	3.3 ✓	
		12	10	56 ✓	+13	3.4 ✓	
		12	11	15.4	+13	5.1	
		12	11	15.7 ✓	+13	5.0 ✓	
		12	11	16 ✓	+13	5.0 ✓	
		12	11	19.5	+13	8.1	
		12	11	19.7 ✓	+13	7.9 ✓	
		12	11	20 ✓	+13	8.0 ✓	
		12	11	9.7	+13	11.5	
		12	11	9.5 ✓	+13	11.4 ✓	
		12	11	10 ✓	+13	11.4 ✓	
		12	11	29.3	+13	8.5	
		12	11	29.6 ✓	+13	8.5 ✓	
		12	11	29.4 ✓	+13	8.5 ✓	

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	✓					
141	21.3	4.2		12	10	34.4 +
	−15.3	−17.2		12	13	4.3 +
	87.3					
	−62.7					
140	26.6	9.6				
	−9.9	−11.8				
	109.1					
	−40.6					
139	25.7	10.6				
	−10.9	−10.8				
	105.4					
	−44.7					
208	23.5	19.1				
	−12.9	−2.3				
	96.4					
	−52.9					
207	12.7	16.0				
	−23.8	−5.3				
	52.1					
	−97.6					
206	8.2	19.9				
	−28.4	−1.4				
	83.6					
	−116.4					

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+13	1.8	12	12	1.7	+13	6.0
+13	23.1	12	12	1.6	+13	5.9
		12	12	2	+13	6.0
		12	12	23.5	+13	11.4
		12	12	23.7	+13	11.3
		12	12	24	+13	11.4
		12	12	19.8	+13	12.4
		12	12	19.6	+13	12.3
		12	12	20	+13	12.4
		12	12	10.8	+13	20.9
		12	12	11.4	+13	20.8
		12	12	11	+13	20.8
		12	11	26.5	+13	17.8
		12	11	26.7	+13	17.8
		12	11	27	+13	17.8
		12	11	8.0	+13	21.7
		12	11	7.9	+13	21.7
		12	11	8	+13	21.7

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✓

I.C. 3081	7.3	13.1		12	10	34.4	+
	-29.3	-8.2		12	13	4.3	+
	29.9						
	-120.1						
I.C. 3078	5.0	12.8					
	-31.6	-8.4					
	20.5						
	-129.6						
205	5.2	20.2					
	-31.3	-1.1					
	21.3						
	-128.3						
133	~~30.2~~ ~~30.0~~	4.8	13 25 19	12	13	16.4	+
	~~-5.2~~ ~~-2.9~~	-45.5	14 24 91	12	15	42.1	+
	~~123.8~~ ~~123.0~~		12 10 59.4 +13 16.5				
	~~-21.3~~ ~~11.9~~		12 13 25.1 +14 6.7				
			2 17.0 -15				
134	~~29.5~~ ~~29.2~~	6.6					
	~~-5.9~~ ~~3.7~~	-43.7					
	~~121.0~~ ~~119.7~~						
	~~-24.2~~ ~~15.2~~						
135	~~21.8~~ ~~21.6~~	6.4					
	~~-13.6~~ ~~11.4~~	-43.8					
	~~84.4~~ ~~88.6~~						
	~~-55.8~~ ~~-46.7~~						

Orientation

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+13	1.8	12	11	4.3	+13	14.9	
+13	23.1	12	11	4	+13	14.9	✓
		12	11	4 ✓	+13	14.9 ✓	
		12	10	54.9	+13	14.6	
		12	10	54.7 ✓	+13	14.7 ✓	
		12	10	55 ✓	+13	14.6 ✓	
		12	10	55.7	+13	22.0	
		12	10	55.0 ✓	+13	22.0 ✓	
		12	10	55 ✓	+13	22.0 ✓	
+13	1.5	12	15	20.2	+13	6.3	
+13	51.7	12	15	20.0 ✓	+13	6.2 ✓	
		12	15	20 ✓	+13	6.2 ✓	
		12	15	17.4	+13	8.1	
		12	15	17.9 ✓	+13	8.0 ✓	
		12	15	18 ✓	+13	8.0 ✓	
		12	14	45.8	+13	7.9	
		12	14	46.3 ✓	+13	7.9 ✓	
		12	14	46 ✓	+13	7.9 ✓	

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	✓				
	7.0				
136	~~6.7~~	7.8	12	13	16.4 +
	~~-26.3~~ -28.5	42.4	12	15	42.1 +
	~~27.5~~ 28.7				
	~~107.8~~ -116.8				
137	~~0.7~~ 1.2	13.7			
	~~-32.3~~ 34.2	36.4			
	~~2.9~~ +4.9				
	~~-132.4~~ -140.2				
213	~~1.8~~ 2.6	23.2			
	~~-31.2~~ -32.6	26.8			
	~~7.4~~ 10.7				
	~~-127.9~~ -133.7				
214	~~5.6~~ 6.5	25.7			
	~~-27.4~~ -28.8	24.4			
	~~23.0~~ 26.6				
	~~-112.3~~ -118.1				
215	~~11.0~~ 11.8	22.9			
	~~-22.0~~ 23.6	27.3			
	~~45.1~~ 48.4				
	~~-90.2~~ -96.8				
216	~~10.7~~ 11.6	24.8			
	~~-22.7~~ 23.7	25.3			
	~~43.9~~ 47.6				
	~~-91.8~~ -97.2				

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+13	1.5	12	13	45.1	+13	9.3	
+13	51.7	12	13	45.3 ✓	+13	9.3 ✓	
		12	13	45 ✓	+13	9.3 ✓	
		12	13	21.3	+13	15.2	
		12	13	21.9 ✓	+13	15.3 ✓	
		12	13	22 ✓	+13	15.2 ✓	
		12	13	27.1	+13	24.7	
		12	13	28.4 ✓	+13	24.9 ✓	
		12	13	28 ✓	+13	24.8 ✓	
		12	13	43.0	+13	27.2	
		12	13	44.0 ✓	+13	27.3 ✓	
		12	13	44 ✓	+13	27.2 ✓	
		12	14	4.8	+13	24.4	
		12	14	5.3 ✓	+13	24.4 ✓	
		12	14	5 ✓	+13	24.4 ✓	
		12	14	4.0	+13	26.3	
		12	14	4.9 ✓	+13	26.4 ✓	
		12	14	4 ✓	+13	26.4 ✓	

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N.G.C. 4267	~~19.2~~ 20.0	19.7	12	13	16.4
	~~-13.8~~ -15.3	30.4	12	15	42.1
	~~78.7~~ 82.0				
	~~-56.6~~ -62.7				
I.C. 772	~~6.4~~ 7.3	26.6			
(775?)	~~-26.7~~ 28.0	23.6			
	~~26.2~~ 29.9				
	~~-109.5~~ -114.8				
217	~~18.6~~ 20.1	31.6			
	~~-14.4~~ 15.4	18.7			
	~~76.3~~ 82.4				
	~~-59.0~~ -63.1				
218	~~8.1~~ 9.8	35.7			
	-24.9 25.7	14.5			
	~~33.2~~ 40.2				
	~~-102.1~~ -105.4				
219	~~9.0~~ 10.7	37.5			
	~~-24.0~~ 24.8	12.6			
	~~36.9~~ 43.9				
	~~-98.4~~ -101.7				
267	~~16.1~~ 17.8	37.2			
	~~-16.9~~ -17.7	13.0			
	~~66.0~~ 73.0				
	~~69.3~~ -72.6				

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+13	1.5	12	14	38.4	+13	21.2	
+13	51.7	12	14	39.4	+13	21.3	
		12	14	39.	+13	21.2	
		12	13	46.3	+13	28.1	
		12	13	47.3	+13	28.1	
		12	13	47	+13	28.1	
		12	14	38.8	+13	33.1	
		12	14	39.0	+13	33.0	
		12	14	39	+13	33.0	
		12	13	56.6	+13	37.2	
		12	13	56.7	+13	37.2	
		12	13	57	+13	37.2	
		12	14	0.8	+13	39.0	
		12	14	0.4	+13	39.1	
		12	14	0	+13	39.0	
		12	14	29.4	+13	38.7	
		12	14	29.5	+13	38.7	
		12	14	29	+13	38.7	

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	24.5					
222	~~22.5~~	40.5		12	13	16.4 +
	~~10.4~~ 11.0	9.7		12	15	42.1 +
	~~42.2~~ 100.4					
	~~42.6~~ 45.1					
	30.8					
223	~~28.8~~	40.5				
	~~-4.2~~ -4.8	9.8				
	~~118.1~~ 126.3					
	~~-17.2~~ -19.7					
211	4.8	-14.9	142484	12	11	34.6 +
	-16.8	12.7	132518	12	13	3.6 +
	19.7		12 9 17.6 +14 5.8			
	-68.9		12 10 46.6 +13 38.1			
			2 17.0 -15			
212	11.7	-21.9				
	-9.9	5.7				
	48.0					
	-40.6					
266	13.5	-20.4				
	-8.1	7.3				
	55.4					
	-33.2					
I.C. 3109	15.5	-7.5				
	-6.1	+20.0				
	63.6					
	-25.0					

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+13	1.5	12	14	56.8	+13	42.0	✓
+13	51.7	12	14	57.0 ✓	+13	42.0	
		12	14	57 ✓	+13	42.0	✓
		12	15	22.7	+13	42.0	
		12	15	22.4 ✓	+13	41.9	✓
		12	15	23 ✓	+13	42.0	✓
+13	50.8	12	11	54.3	+13	35.9	
+13	23.1	12	11	54.7 ✓	+13	35.8	✓
		12	11	54 ✓	+13	35.8	✓
		12	12	22.6	+13	28.9	
		12	12	23.0 ✓	+13	28.8	✓
		12	12	23 ✓	+13	28.8	✓
		12	12	30.0	+13	30.4	
		12	12	30.4 ✓	+13	30.4	✓
		12	12	30 ✓	+13	30.4	✓
		12	12	38.2	+13	43.3	
		12	12	38.6 ✓	+13	43.1	✓
		12	12	38 ✓	+13	43.2	✓

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221	17.6	-7.2		12	11	34.6	+
	-4.1	20.4		12	13	3.6	+
	72.2						
	-16.8						
224	5.0	-14.1	142488	12	14	47.8	+
	-8.0	6.4	142491	12	15	41.7	+
	20.5		12 12 31.2 +14 27.0				
	-32.8		12 13 25.1 +14 6.7				
			2 16.6 -15 +14.9				
225	6.2	-9.5					
	-6.8	11.1					
	25.4						
	-27.9						
237	2.4	12.3	142484	12	11	34.2	+
	-44.7	-9.0	142488	12	14	47.8	+
	9.8		12 9 17.6 +14 5.8				
	-183.3		12 12 31.2 +14 27.0				
			2 16.6 -15 +14.9				
234	15.8	1.2					
	-31.2	-20.1					
	64.8						
	-127.9						
I.C. 3108	15.1	4.8					
	-31.9	-16.4					
	61.9						
	-130.8						

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+13	50.8	12	12	46.8	+13	43.6
+13	23.1	12	12	46.8 ✓	+13	43.5 ✓
		12	12	47 ✓	+13	43.6 ✓
			15	9 8.3		
+14	12.0	12	14	27.8	+13	57.4
+13	51.7	12	15	9 8.6 ✓	+13	58.1 ✓
		12	15	9 10	+13	58.0
				4		
		12	15	13.2	+14	2.5
		12	15	4 13.8 ✓	+14	2.8 ✓
		12	15	14	+14	2.6 ✓
				5		
3 +14	50.8	12	11	44.0	+14	3.1
+14	12.0	12	11	5 44.5 ✓	+14	3.0 ✓
		12	11	44 5	+14	3.0 ✓
				40		
		12	12	39.0	+13	52.0
		12	12	40 39.9 ✓	+13	51.9 ✓
		12	12	39 40	+13	52.0 ✓
				7		
		12	12	36.1	+13	55.6
		12	12	8 37.0 ✓	+13	55.6 ✓
		12	12	37 8	+13	55.6 ✓

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235	21.9	17.2	12	11	34.2 (5)	+1
	−25.1	−4.0	12	14	47.8 (6)	+
	89.8					
	−102.9					
236	21.6	18.8				
	−25.6	−2.5				
	88.6					
	−105.0					
229	35.9	2.6				
	−11.0	−18.5				
	147.2					
	−45.1					
230	34.6	2.2				
	−12.3	−19.0				
	141.9					
	−50.4					
231	33.2	9.1				
	−13.9	−12.1				
	136.1					
	−57.0					
232	32.9	10.5				
	−14.1	−10.6				
	134.9					
	−57.8					

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3 +14 50.8	12	13	5 4.0	14 + 13 8.0
+ 14 · 12.0	12	13	5 4.9	+ 14 8.0
	12	13	4 5	+ 14 8.0
	12	13	3 2.8	+ 14 9.6
	12	13	3 2.8	+ 14 9.5
	12	13	3 3	+ 14 9.6
	12	14	2 1.4	+ 13 53.4
	12	14	3 2.7	+ 13 53.5
	12	14	2 3	+ 13 53.4
	12	13	7 56.1	+ 13 53.0
	12	13	8 57.4	+ 13 59.0
	12	13	57 8	+ 13 53.0
	12	13	1 50.3	+ 13 59.9
	12	13	1 50.8	+ 13 59.9
	12	13	51 2	+ 13 59.9
	12	13	50 49.1	+ 14 1.3
	12	13	1 50.0	+ 14 1.4
	12	13	50 1	+ 14 1.4

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228	39.2	11.4		12 11 34.2	+
	−7.8	−9.7		12 14 47.8	+
	160.7				
	−32.0				
227	42.8	10.2			
	−4.2	−10.9			
	175.5				
	−17.2				
226	44.4	8.8			
	−2.7	−12.3			
	182.0				
	−11.1				
233	47.0	16.7			
	−0.2	−4.3			
	192.7				
	−0.8				
I.C. 3047	2.2	−3.7	132507	12 8 0.4	+
	−35.4	31.1	132512	12 10 34.4	+
	9.0		12 5 42.7 +13 51.6		
	−145.1		12 8 16.7 +13 16.8		
			2 17.7 −15.0		
I.C. 3046	0.5	−8.5			
?	−37.0	26.4			
	2.0				
	−151.7				

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+14	50.8	12	14	14.9	+14	2.2
+14	12.0	12	14	15.8	+14	2.3
		12	14	15	+14	2.2
		12	14	29.7	+14	1.0
		12	14	30.6	+14	1.1
		12	14	30	+14	1.0
		12	14	36.2	+13	59.6
		12	14	36.7	+13	59.7
		12	14	37	+13	59.6
		12	14	46.9	+14	7.5
		12	14	47.0	+14	7.7
		12	14	47	+14	7.6
+13	36.6	12	8	9.4	+13	32.9
+13	1.8	12	8	9.3	+13	32.9
		12	8	9.	+13	32.9
		12	8	2.4	+13	28.1
		12	8	2.7	+13	28.2
		12	8	3	+13	28.2

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191	6.2	-15.2	12	8	0.4
	-31.2	19.7	12	10	34.4
	25.4				
	-127.9				
I.C. 3052 ?	10.3	-22.0			
	-27.2	12.8			
	42.2				
	-111.5				
95 (Duplicate)	6.5	-29.0			
	-31.0	5.8			
	26.6				
	-127.1				
IC. 3056	22.3	-14.5			
	-15.3	20.3			
	91.4				
	-62.7				
IC. 3060	28.3	-30.4			
	-9.2	4.4			
	116.0				
	-37.7				
201	23.6	-5.6			
	-14.0	24.2			
	96.8				
	-57.4				

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+13	36.6	12	8	25.8	+13	21.4	
+13	1.8	12	8	26.5	+13	21.5	
		12	8	26	+13	21.4	
		12	8	42.6	+13	14.6	
		12	8	42.9	+13	14.6	
		12	8	43	+13	14.6	
		12	8	27.0	+13	7.6	
		12	8	27.3	+13	7.6	
		12	8	27	+13	7.6	
		12	9	31.8	+13	22.1	
		12	9	31.7	+13	22.1	
		12	9	32	+13	22.1	
		12	9	56.4	+13	6.2	
		12	9	56.7	+13	6.2	
		12	9	57	+13	6.2	
		12	9	37.2	+13	31.0	
		12	9	37.0	+13	31.0	
		12	9	37	+13	31.0	

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200	23.5	−4.7	12	8	0.4	+
	−14.0	30.1	12	10	34.4	+
	96.4					
	−57.4					
199	23.4	−3.9				
	−14.2	30.9				
	95.9					
	−58.2					
N 4206	31.7	−1.8				
	−5.8	33.0				
	130.0					
	−23.8					
	~~64.8~~					
202	31.6	−11.4				
	−5.9	23.3				
	129.6					
	24.2					
203	36.8	−15.3				
	−0.6	19.5				
	150.9					
	−2.5					
204	37.1	−17.8				
	−0.4	16.9				
	152.1					
	−1.6					

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+13	36.6	12	9	36.8	+13	31.4
+13	1.8	12	9	37.0	+13	31.9
		12	9	37	+13	31.9
		12	9	36.3	+13	32.7
		12	9	36.2	+13	32.7
		12	9	36	+13	32.7
		12	10	10.4	+13	34.8
		12	10	10.6	+13	34.8
		12	10	10	+13	34.8
		12	10	10.0	+13	25.2
		12	10	10.2	+13	25.1
		12	10	10	+13	25.2
		12	10	31.3	+13	21.3
		12	10	31.9	+13	21.3
		12	10	32	+13	21.3
		12	10	32.5	+13	18.8
		12	10	32.8	+13	18.7
		12	10	33	+13	18.8

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192	16.0	−16.4		12	8	0.4	+
	−21.5	18.4		12	10	34.4	+
	65.6						
	−88.2						
94	16.2	7.9	132502	12	6	2.0	+
	−12.7	−27.2	132507	12	8	0.4	+
	66.4		12 3 44.3 +13 16.5				
	−52.1		12 5 42.7 +13 51.6				
			2 17.7 −15.0				
151	15.5	25.0					
	−13.5	−10.0					
	63.6						
	−55.4						
I.C. 3036	16.3	0.9					
	−12.6	−34.2					
	66.8						
	−51.7						
I.C. 3041	23.3	17.2					
	−5.7	−17.8					
	95.5						
	−23.4						
147	~~8.9~~ 9.2	−10.8	132499	12	5	6.0	+
	~~3.9~~ −4.5	17.1	132502	12	6	2.0	+
	~~36.5~~ 37.7		12 2 48.3 +13 44.3				
	~~=16.0~~ −18.4		12 3 44.3 +13 16.5				
Orientation			2 17.7 −15.0				

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+13	36.6	12	9	6.0	+13	20.2
+13	1.8	12	9	6.2	+13	20.2
		12	9	6	+13	20.2
+13	1.5	12	7	8.4	+13	9.4
+13	36.6	12	7	8.3	+13	9.4
		12	7	8	+13	9.4
		12	7	5.6	+13	26.5
		12	7	5.0	+13	26.6
		12	7	5	+13	26.6
		12	7	8.8	+13	2.4
		12	7	8.7	+13	2.4
		12	7	9	+13	2.4
		12	7	37.5	+13	18.7
		12	7	37.0	+13	18.8
		12	7	37	+13	18.8
				43.7		
+13	29.3	12	5	~~42.5~~	+13	18.5
+13	1.5	12	5	43.6	+13	18.6
		12	5	44	+13	18.6

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148	10.2	−2.5		12	5	6.0	+
	~~−2.8~~ 3.5	25.4		12	6	2.0	+
	41.8						
	~~−11.5~~ −14.4						
149	4.5	3.0	132499	12	5	5.3	+
	−11.0	−33.9	142477	12	6	8.0	+
	18.4		12 2 48.3 +13 44.3				
	−45.1		12 3 51.0 +14 21.5				
			2 17.0 −15				
150	6.4	5.0					
	−9.1	−31.9					
	26.2						
	−37.3						
156	10.7	14.8					
	−4.9	−22.3					
	43.9						
	−20.1						
157	4.9	13.8					
	−10.7	−23.2					
	20.1						
	−43.9						
158	7.7	22.5					
	−7.9	−14.5					
	31.6						
	−32.4						

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+13	29.3	12	5	47.8	+13	26.8	
+13	1.5	12	5	47.6	+13	26.9	
		12	5	48	+13	26.8	
+13	29.3	12	5	23.7	+13	32.3	
+14	6.5	12	5	22.9	+13	32.6	
		12	5	23	+13	32.4	
		12	5	31.5	+13	34.3	
		12	5	30.7	+13	34.4	
		12	5	31	+13	34.4	
		12	5	49.2	+13	44.1	
		12	5	47.9	+13	42.2	
		12	5	48	+13	44.2	
		12	5	25.4	+13	43.1	
		12	5	24.1	+13	43.3	
		12	5	25	+13	43.2	
		12	5	36.9	+13	51.8	
		12	5	35.6	+13	52.0	
		12	5	36	+13	51.9	

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I.C. 3031	12.9	22.2		12 5 5.3	+
	−2.7	−14.8		12 6 8.0	+
	52.9				
	−11.1				
I.C. 3029	7.5	23.6			
	−8.1	−13.5			
	30.8				
	−33.2				
269	0.2	−21.8	142477	12 6 8.0	+
	−26.9	8.0	132507	12 7 59.7	+
	0.8		12 3 57.0 +14 21.5		
	−110.3		12 5 42.7 +13 51.6		
			2 17.0 −15.0		
155	1.3	−25.8			
	−25.8	4.0			
	5.3				
	~~1.4~~				
	−105.8				
159	2.5	−20.8			
	−24.6	8.9			
	10.2				
	−100.9				
160	4.1	−19.2			
	−23.0	10.6			
	16.8				
	−94.3				

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+13	29.3	12	5	58.2	+13 51.5
+14	6.5	12	5	56.9	+13 51.7
		12	5	57	+13 51.6
		12	5	36.1	+13 52.9
		12	5	34.8	+13 53.0
		12	5	35	+13 53.0
+14	6.5	12	6	8.8	+13 44.7
+13	36.6	12	6	9.4	+13 44.6
		12	6	9	+13 44.6
		12	6	13.3 ~~17.4~~	+13 40.~~7~~
		12	6	13.9	+13 40.6
		12	6	14	+13 40.6
		12	6	18.2	+13 45.7
		12	6	18.8	+13 45.5
		12	6	18	+13 45.6
		12	6	24.8	+13 47.3
		12	6	25.4 ~~4.0~~	+13 47.2
		12	6	25	+13 47.2

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161	2.5	-10.6	12 6. 8.0
	-24.6	19.2	12 7 59.7
	10.2		
	-100.9		
162	2.4	-8.8	
	-24.7	21.0	
	9.8		
	-101.3		
171	8.8	-9.7	
	-18.3	20.1	
	36.1		
	-75.0		
170	10.0	-7.0	
	-17.0	22.8	
	41.0		
	-69.7		
172	14.5	-6.5	
	-12.6	23.3	
	59.4		
	-57.7		
173	14.8	-3.7	
	-12.3	26.6	
	60.7		
	-50.4		

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+14	6.5	12	6	18 .2	+13	55.9	
+13	36.6	12	6	18 .8	+13	55.8	
		12	6	18	+13	55.8	
		12	6	17.8	+13	57.7	
		12	6	17.4	+13	57.6	
		12	6	18	+13	57.6	
		12	6	44.1	+13	56.8	
		12	6	44.7	+13	56.7	
		12	6	44	+13	56.8	
		12	6	49.0	+13	59.5	
		12	6	50.0	+13	59.4	
		12	6	50	+13	59.4	
		12	7	7.4	+14	0.0	
		12	7	8.0	+13	59.9	
		12	7	8	+14	0.0	
		12	7	8.7	+14	3.3	
		12	7	9.3	+14	3.2	
		12	7	9	+14	3.2	

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1927phae.proj..2311A

169	14.4	-2.8	12 6 8.0	+
	-12.7	26.9	12 7 59.7	+
	59.0			
	-52.1			
174	19.2	-11.4		
	-7.9	18.4		
	78.7			
	-32.4			
175	16.7	-17.5		
	-10.4	12.3		
	68.5			
	-42.6			
176	22.9	-12.6		
	-4.2	17.2		
	93.9			
	-17.2			
177	23.6	-18.6		
	-3.7	11.2		
	96.8			
	-15.2			
N 4165	13.8	-18.6		
	-13.3	11.3		
	56.6			
	~~97.6~~			
	-54.5			

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1927phae.proj.2311A

+14	6.5	12	7	7.0	+14	3.7
+13	36.6	12	7	7.6	+14	3.5
		12	7	7	+14	3.6
		12	7	26.7	+13	55.1
		12	7	27.3	+13	55.0
		12	7	27	+13	55.0
		12	7	16.5	+13	49.0
		12	7	17.1	+13	48.9
		12	7	17	+13	49.0
		12	7	41.9	+13	53.9
		12	7	42.5	+13	53.8
		12	7	42	+13	53.8
		12	7	44.8	+13	47.9
		12	7	44.5	+13	47.8
		12	7	45	+13	47.8
		12	7	45.6	+13	47.9
		12	7	5.2	+13	47.9
		12	7	5	+13	47.9

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1927phae.proj.2311A

N 4164	12.4	-21.0		12 6 8.0	+
	-14.8	8.8		12 7 59.7	+
	50.8				
	~~91.8~~				
	-60.7				
N 4168	15.2	-21.0			
	-11.9	8.8			
	62.3				
	~~103.3~~				
	-48.8				
	~~-52.4~~				
152	10.5	-29.2			
	-16.7	0.7			
	43.0				
	-68.5				
153	13.9	-29.5			
	-13.2	0.4			
	57.0				
	-54.1				
154	13.5	-28.8			
	-13.7	1.0			
	55.4				
	-56.2				
189	7.4	2.0	132507	12 7 59.7	+
	-45.1	-12.2	142484	12 11 34.6	+
	30.3		12 5 42.7 +13 51.6		
	-184.9		12 9 17.6 +14 5.8		
			2 17.0 -15		

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1927phae.proj.23111

+14	6.5	12	6	58.8	+13	45.5
+13	36.6	12	6	59.0	+13	45.4
		12	6	59.0	+13	45.4
		12	7	10.3	+13	44.5
		12	7	10.9	+13	45.4
		12	7	11	+13	45.4
		12	6	51.0	+13	37.3
		12	6	51.2	+13	37.3
		12	6	51	+13	37.3
		12	7	5.0	+13	37.0
		12	7	5.6	+13	37.0
		12	7	5	+13	37.0
		12	7	3.4	+13	37.7
		12	7	3.9	+13	37.6
		12	7	3	+13	37.6
+13	36.6	12	8	30.0	+13	38.6
+13	50.8	12	8	29.7	+13	38.6
		12	8	30	+13	38.6

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1927phae.proj.2311A

190	9.3	1.5	12 7 59.7	+
	-43.2	-12.7	12 11 34.6	+
	38.1			
	177.1			
N 4193	11.7	6.7		
	-40.7	-7.5		
	48.0			
	-166.9			
198	23.0	1.3		
	-29.6	-12.8		
	94.3			
	-121.4			
194	19.9	7.2		
	-32.5	-7.0		
	81.6			
	-133.2			
I.C. 771	31.0	7.3		
	-21.4	-6.9		
	127.1			
	-87.7			
N 4216	41.0	+5.2		
	-11.4	-8.9		
	168.1			
	-46.7			

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+13	36.6	12	8	37.8	+13	38.1
+13	50.8	12	8	37.5	+13	38.1
		12	8	38	+13	38.1
		12	8	47.7	+13	43.3
		12	8	47.7	+13	43.3
		12	8	48	+13	43.3
		12	9	34.0	+13	37.9
		12	9	33.2	+13	38.0
		12	9	34	+13	38.0
		12	9	21.3	+13	43.8
		12	9	21.4	+13	43.8
		12	9	21	+13	43.8
		12	10	6.8	+13	43.9
		12	10	6.9	+13	43.9
		12	10	7	+13	43.9
		12	10	47.8	+13	41.8
		12	10	47.9	+13	41.9
		12	10	48	+13	41.8

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1927phae.proj.2311A

240	40.8	9.1		12 7 59.7	+
	−11.6	−5.0		12 11 34.6	+
	167.3				
	−47.6				
197	28.3	13.4			
	−24.0	−0.7			
	116.0				
	−98.4				
165	0.2	10.8	142477	12 6 8.0	+
	−54.8	−32.2	152432	12 9 53.6	+
	0.8		12 3 51.0 +14 21.5		
	−224.7		12 7 36.6 +15 4.3		
			2 17.0 −15.		
166	3.6	7.6			
	−51.4	−35.3			
	14.8				
	−210.7				
167	8.7	7.5			
	−46.3	−35.3			
	35.7				
	−189.8				
187	27.8	1.9			
	−27.3	−40.8			
	114.0				
	−111.9				

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+13	36.6	12	10	47.0	+13	45.7
+13	50.8	12	10	47.0	+13	45.8
		12	10	47	+13	45.8
		12	9	55.7	+13	50.0
		12	9	56.2	+13	50.1
		12	9	56	+13	50.0
+14	6.5	12	6	8.8	+14	17.3
+14	49.3	12	6	8.9	+14	17.1
		12	6	9	+14	17.2
		12	6	22.8	+14	14.1
		12	6	22.9	+14	14.0
		12	6	23	+14	14.0
		12	6	43.7	+14	14.0
		12	6	43.8	+14	14.0
		12	6	44	+14	14.0
		12	8	2.0	+14	8.4
		12	8	1.7	+14	8.5
		12	8	2	+14	8.4

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188	32.2	0.7	12	6	8.0	+
	−23.0	−42.1	12	9	53.6	+
	132.0					
	−94.3					
186	43.4	6.3				
	−11.7	−36.5				
	177.9					
	−48.0					
185	39.1	7.5				
	−16.0	−35.4				
	160.3					
	−65.6					
184	47.7	13.7				
	−7.5	−29.1				
	195.6					
	−30.8					
183	40.6	15.8				
	−14.4	−27.1				
	166.5					
	−59.0					
182	30.7	19.3				
	−24.4	−23.7				
	125.9					
	−100.0					

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+14	6.5	12	8	20.0	+14	7.2
+14	49.3	12	8	19.3	+14	7.2
		12	8	20	+14	7.2
		12	9	5.9	+14	12.8
		12	9	5.6	+14	12.8
		12	9	6	+14	12.8
		12	8	48.3	+14	14.0
		12	8	48.0	+14	13.9
		12	8	48	+14	14.0
		12	9	23.6	+14	20.2
		12	9	22.8	+14	20.2 ~~8.4~~
		12	9	23	+14	20.2
		12	8	54.5	+14	22.3
		12	8	54.6	+14	22.2
		12	8	55	+14	22.2
		12	8	13.9	+14	25.8
		12	8	13.6	+14	25.8
		12	8	14	+14	25.7

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181	42.4	31.2	12 6 8.0	
	−12.7	−11.7	12 9 53.6	+
	173.8			
	−52.1			
180	41.8	36.3		
	−13.2	−6.6		
	171.4			
	−54.1			
179	40.2	38.4		
	−14.8	−4.4		
	164.8			
	−60.7			
178	41.6	39.7		
	−13.5	−3.1		
	170.6 ~~166.5~~			
	−55.4			
I.C. 3058	51.7	32.6		
	−3.5	−10.2		
	212.0			
	−14.4			
I.C. 3053	38.2	40.2		
	−17.0	−2.7		
	156.6			
	−69.7			

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+14 6.5	12	9	1.8	+14	37.7
+14 49.3	12	9	1.5	+14	37.6
	12	9	2	+14	37.6
	12	8	59.4	+14	42.8
	12	8	59.5	+14	42.7
	12	8	59	+14	42.8
	12	8	52.8	+14	44.9
	12	8	52.9	+14	44.9
	12	8	53	+14	44.9
	12	8	58.6 ~~54.5~~	+14	46.2
	12	8	58.2	+14	46.2
	12	8	58	+14	46.2
	12	9	40.0	+14	39.1
	12	9	39.2	+14	39.1
	12	9	40	+14	39.1
	12	8	44.6	+14	46.7
	12	8	43.9	+14	46.6
	12	8	44	+14	46.6

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I.C. 3044	22.8	25.3		12 6 8.0	-
	-32.3	-17.6		12 9 53.6	+
	93.5				
	-132.4				
I.C. 3034	8.0	38.8			
	-47.0	-4.1			
	32.8				
	192.7				
165	41.7	-19.3	142476	12 3 15.4	+
	-0.3	10.7	142477	12 6 7.6	+
	171.0		12 0 58.8 +14 51.7		
	-1.2		12 3 51.0 +14 21.5		
			2 16.6 -14.9		
164	37.8	-15.1			
	-4.2	14.9			
	155.0				
	-17.2				
168	12.5	0.7	For comparison star	12 6 8.0	+
	-42.7	-41.9	see p 144 -	12 9 53.6	+
	51.2		142477		
	-175.1		152432		
243	17.7	-4.5	152432	12 9 53.6	+
	-4.8	3.5	142483	12 11 26.2	+
	72.6		12.7 36.6 +15 4.3		
	-19.7		12 9 9.2 +14 56.4		
			2 17 -15		

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+14	6.5	12	7	41.5	+14	31.8
+14	49.3	12	7	41.2	+14	31.8
		12	7	41	+14	31.8
		12	6	40.8	+14	45.3
		12	6	40.9	+14	45.2
		12	6	41	+14	45.2
+14	36.7	12	6	6.4	+14	17.4
+14	6.5	12	6	6.4	+14	17.2
		12	6	6.7	+14	17.3
		12	5	50.4	+14	21.6
		12	5	50.4	+14	21.4
		12	5	50	+14	21.5
+14	6.5	12	6	59.2	+14	7.2
+14	49.3	12	6	58.5	+14	7.4
		12	6	59	+14	7.3
+14	49.3	12	11	6.2	+14	44.8
+14	41.4	12	11	6.5	+14	44.9
		12	11	6	+14	44.8

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248	5.7	11.3	142488	12	14	47.8	+
	−13.5	−0.3	142493	12	16	5.6	+
	23.4		12 12 31.2 +14 27.0				
	−55.4		12 13 49.0 +14 38.9				
			2 16.6 −14.9				
249	12.9	−2.5	142487	12	14	23.9	+
	−11.9	2.0	142493	12	16	5.6	+
	52.9		12 12 7.3 +14 43.3				
	−48.8		12 13 49.0 +14 38.9				
			2 16.6 −14.9				
247	39.3	−15.9	142483	12	11	25.8	+
	−10.1	13.5	142488	12	14	47.8	+
	161.1		12 9 9.2 +14 56.4				
	−41.4		12 12 31.2 +14 27.0				
			2 16.6 −14.9				
246	36.1	−10.0					
	−13.3	19.3					
	148.0						
	−54.5						
245	14.6	−19.2					
	−34.6	10.0					
	59.9						
	141.9						
244	6.2	−26.2					
	−43.2	3.2					
	25.4						
	177.1						

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+14	12.0	12	15	11.2	+14	23.3
+14	23.9	12	15	10.2	+14	23.6
		12	15	11	+14	23.4
+14	28.3	12	15	16.8	+14	25.8
+14	23.9	12	15	16.8	+14	25.9
		12	15	17	+14	25.8
+14	41.4	12	14	6.9	+14	25.5
+14	12.0	12	14	6.4	+14	25.5
		12	14	7	+14	25.5
		12	13	53.8	+14	31.4
		12	13	54.3	+14	31.3
		12	13	54	+14	31.4
		12	12	25.7	+14	22.2
		12	12	25.9	+14	22.0
		12	12	26	+14	22.1
		12	11	51.2 ~~0.4~~	+14	15.2
		12	11	50.7	+14	15.2
		12	11	51	+14	15.2

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I.C. 3120	25.2	-24.0		12	11	26.8	+
	-24.2	5.2		12	14	47.8	+
	103.3						
	-99.2						
I.C. 3126 ?	30.4	-20.0					
	-19.0	9.3					
	124.6						
	-77.9						
I.C. 3142	36.9	-10.0					
	-12.4	19.3					
	151.3						
	-50.8						
238	22.9	-47.3	15 24 32	12	9	53.6	+1
	-2.1	11.1	14 24 84	12	11	34.6	+1
	93.9		12 7 36.6 +15 4.3				
	-8.6		12 9 17.6 +14 5.8				
			2 17.0 -15				
239	18.0	-50.0					
	-7.0	8.5					
	73.8						
	-28.7						
241	18.4	-41.2					
	-6.5	17.3					
	75.4						
	-26.6						

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				10			
+14	41.4	12	13	9.1	+14	17.4	
+14	12.0	12	13	8.6	+14	17.2	
		12	13	9	+14	17.3	
				1			
		12	13	30.4	+14	21.4	
		12	13	29.9	+14	21.3	
		12	13	30	+14	21.4	
				8			
		12	13	57.1	+14	31.4	
		12	13	57.0	+14	31.3	
		12	13	57	+14	31.4	
+14	49.3	12	11	27.5	+14	2.0	
+13	50.8	12	11	26.0	+14	1.9	
		12	11	27	+14	2.0	
		12	11	7.4	+13	59.3	
		12	11	5.9	+13	59.3	
		12	11	6	+13	59.3	
		12	11	9.0	+14	8.1	
		12	11	8.0	+14	8.1	
		12	11	8	+14	8.1	

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242	3.7	-29.7	12	9	53.6	+
	-21.3	28.8	12	11	34.6	+
	15.2					
	-87.3					
268	8.3	-46.8				
	-16.6	11.8				
	34.0					
	-68.1					
N 4222	20.6	-57.8				
	-4.3	0.7				
	84.5					
	-17.6					
N 4212	9.4	-22.1				
	-15.4	36.5				
	38.5					
	-63.1					
I.C. 3061	0.8	-14.3				
	-23.9	44.3				
	3.3					
	-98.0					
I.C. 3062	1.5	-40.1				
	-23.4	18.4				
	6.2					
	-95.9					

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+14	49.3	12	10	8.8	+14	19.6	
+13	50.8	12	10	7.9	+14	19.6	
		12	10	8	+14	19.6	
		12	10	27.6	+14	2.5	
		12	10	26.5	+14	2.6	
		12	10	27	+14	2.6	
		12	11	18.1	+13	51.5	
		12	11	17.0	+13	51.5	
		12	11	18	+13	51.5	
		12	10	32.1	+14	27.2	
		12	10	31.5	+14	27.3	
		12	10	32	+14	27.2	
		12	9	56.9	+14	35.0	
		12	9	56.6	+14	35.1	
		12	9	57	+14	35.0	
		12	9	59.8	+14	9.2	
		12	9	58.7	+14	9.2	
		12	9	59	+14	9.2	

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I.C. 3066	4.3	−47.5		12	9	53.6	+
	−20.6	11.1		12	11	34.6	+
	17.6						
	−84.5						
I.C. 3073	8.8	−38.9					
	−16.0	19.7					
	36.1						
	−65.6						
I.C. 3091	21.3	−15.8					
	−3.5	42.7					
	87.3						
	−14.4						
220	22.1	−15.2	14248 4	12	11	34.6	+1
	−12.4	8.2	13 25 21	12	13	56.0	+1
	90.6		12 9 17.6 + 14 5.8				
	−50.8		12 11 39.0 + 13 42.2				
			2 17.0 −15				
209	18.0	−8.5	13 25 11	12	10	6.8	+1
	−25.2	9.6	13 25 18	12	13	4.3	+
	73.8		12 7 49.1 +13 56.3				
	−103.3		12 10 46.6 +13 38.1				
			2 17.7 −15				
210	19.8	−6.7					
	−23.5	11.5					
	81.2						
	−96.4						

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+14	49.3	12	10	11.2	+14	1.8
+13	50.8	12	10	10.1	+14	1.9
		12	10	11	+14	1.8
		12	10	29.7	+14	10.4
		12	10	29.0	+14	10.5
		12	10	29	+14	10.4
		12	11	20.9	+14	33.5
		12	11	20.2	+14	33.5
		12	11	21	+14	33.5
+13	50.8	12	13	5.2	+13	35.6
+13	27.2	12	13	5.2	+13	35.4
		12	13	5.-	+13	35.5
+13	41.3	12	11	20.6	+13	32.8
+13	23.6	12	11	21.0	+13	33.2
		12	11	21	+13	33.0
		12	11	28.0	+13	34.6
		12	11	27.9	+13	35.1
		12	11	28	+13	34.6

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163	12.6	-27.1	15 24 19	12	5	7.6	+
	-12.1	4.6	14 24 79	12	6	49.1	+
	51.7		12 2 50.6 +15 20.3				
	-49.6		12 4 32.1 +14 48.6				
			2 17.0 -15				
193	29.1	-16.0	14 24 82	12	7	17.8	+
	-11.9	10.4	13 25 11	12	10	6.1	+
	119.3		12 5 0.8 +14 22.6				
	-48.8		12 7 49.1 +13 56.3				
			2 17.0 -15				
195	34.4	-15.4					
	-6.6	11.0					
	141.0						
	-27.1						
196	35.7	-15.2					
	-5.3	11.2					
	146.4						
	-21.7						
270	15.5	8.7	112445	12	13	27.4	+
	-6.1	-38.0	122449	12	14	55.8	+
	63.6		See pg. 66				
	-25.0						
	21.5	46.5					
273	13.5	1.6	102393	12	8	36.9	+
	-6.4	-12.4	102394	12	9	58.1	+
	55.4		See pg. 56				
	-26.2						
	19.9	14.0					

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+15	5.3	12	5	59.3	+14	38.2
+14	33.6	12	5	59.5 ~~8.7~~	+14	38.2
		12	5	59	+14	38.2
					+13	51.6
+14	7.6	12	9	17.1	+~~14~~	~~28.6~~
+13	41.3	12	9	17.3	+13	51.7
		12	9	17	+13	51.6
		12	9	38.8	+13	52.2
		12	9	39.0	+13	52.3
		12	9	39	+13	52.2
		12	9	44.2	+13	52.4
		12	9	44.4	+13	52.5
		12	9	44	+13	52.4
+11	24.3	12	14	31.0	+11	33.0
+12	10.8	12	14	30.8	+11	32.8
		12	14	31	+11	32.9
+10	18.5	12	9	32.3	+10	20.1
+10	32.5	12	9	31.9	+10	20.1
		12	9	32	+10	20.1

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271	14.7	−25.8	142477	12 6 8.0	+
	−12.5	4.2	132507	12 7 59.7	+
	60.3		see pg. 134		
	−51.2				
272	15.5	−26.0			
	−11.6	4.0			
	63.6				
	−47.6				
255	34.7	−0.6	112438	12 8 00.6	+
	−28.5	22.4	102400	12 12 19.3	+
	142.3		12 5 43.1 +11 19.4		
	−116.8		12 10 1.8 +10 52.4		
	63.1	23.0	2 17.5 −15.0		
32	8.9	−23.1	112450	12 14 49.5	+
	−27.1	9.7	102417	12 17 17.2	+
	36.5		12 12 31.9 +11 17.1		
	−111.1		12 14 59.6 +10 44.5		
	36.0	32.6	2 17.6 −15		

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	+14	6.5	12	7	8.3	+13 40.7
	+13	36.6	12	7	8.5	+13 40.8
			12	7	8	+13 40.8
			12	7	11.6	+13 40.5
			12	7	12.1	+13 40.6
			12	7	12	+13 40.6
.6	+11	4.4	12	10	22.9	+11 3.8
.3	+10	41.4	12	10	22.5	+11 3.8
			12	10	23	+11 3.8
.5	+11	2.1	12	15	26.0	+10 39.0
.2	+10	29.5	12	15	26.1	+10 39.2
			12	15	26	+10 39.1

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1	27.3	−2.3	102413	12	15	21.1	+1
	−1.1	5.8	102417	12	17	17.1	+1
	111.9		12 13 3.6 + 10 52.5				
	−4.5		12 14 59.6 + 10 44.5				
			2 17.5 −15				
2	5.4	3.5	102417	12	17	17.1	+
	−23.2	−17.3	112453	12	19	14.0	+
	22.1		12 14 59.6 +10 44.5				
	−95.1		12 16 56.5 +11 5.4				
			2 17.5 −15				
3	18.9	1.3					
	−9.6	−19.5					
	77.5						
	−39.4						
IC. 3236	9.4	9.4					
	−19.2	−11.3					
	38.5						
	−78.7						
137	8.9	11.8					
	−19.8	−9.0					
	36.5						
	−81.2						
N. 4380	15.3	−16.3	112453	12	19	14.0	+
	−28.7	2.8	102424	12	22	14.0	+
	62.7		12 16 56.5 +11 5.4				
	−117.7		12 19 56.5 +10 46.2				
			2 17.5 −15				

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+10	37.5	12	17	13.0	+10	35.2
+10	29.5	12	17	12.6	+10	35.3
		12	17	13	+10	35.2
+10	29.5	12	17	39.2	+10	33.0
+10	50.4	12	17	38.9	+10	33.1
		12	17	39	+10	33.0
		12	18	34.6	+10	30.8
		12	18	34.6	+10	30.9
		12	18	35	+10	30.8
		12	17	55.6	+10	38.9
		12	17	55.3	+10	39.1
		12	17	55	+10	39.0
		12	17	53.6	+10	41.3
		12	17	52.8	+10	41.4
		12	17	53	+10	41.4
+10	50.4	12	20	16.7	+10	34.1
+10	31.2	12	20	16.3	+10	34.0
		12	20	16.	+10	34.0

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136	11.0	−11.3		12	19	14.0	+
	−32.8	7.8		12	22	140	+
	45.1						
	−134.5						
4	22.8	−7.7					
	−21.2	11.5					
	93.5						
	−86.9						
I.C. 3328	24.2	−14.0					
	−19.7	5.2					
	99.2						
	−80.8						
12	22.1	15.4	112450	12	14	49.4	+
	−16.9	−10.1	112452	12	17	29.4	+
	90.6		12 12 31.9 +11 17.1				
	−69.3		12 15 11.9 +11 42.5				
			2 17.5 −15				
11	31.2	8.3					
	−7.8	−17.2					
	127.9						
	−32.0						
I.C. 3199	27.1	6.8					
	−11.9	−18.7					
	111.1						
	−48.8						

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+10	50.4	12	19	59.1	+10	39.1
+10	31.2	12	19	59.5	+10	39.0
		12	19	59	+10	39.0
		12	20	47.5	+10	42.7
		12	20	47.1	+10	42.7
		12	20	47	+10	42.7
		12	20	53.2	+10	36.4
		12	20	53.2	+10	36.4
		12	20	53	+10	36.4
+11	2.1	12	16	20.0	+11	17.5
+11	27.5	12	16	20.1	+11	17.4
		12	16	20	+11	17.4
		12	16	57.3	+11	10.4
		12	16	57.4	+11	10.3
		12	16	57	+11	10.4
		12	16	40.5	+11	8.9
		12	16	40.6	+11	8.8
		12	16	41	+11	8.8

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I.C. 3220	36.0	7.3		12	14	49.4	+
	-3.1	-18.3		12	17	29.4	+
	147.6						
	12.7						
I.C. 3240	8.1	-32.7	112452	12	17	29.4	+
	-17.4	4.3	112453	12	19	14.0	+
	33.2		12 15 11.9 +11 42.5				
	-71.3		12 16 56.5 +11 5.4				
			2 17.5 -15				
N. 4320	5.7	-21.5					
	-19.8	-15.5					
	23.4						
	-81.2						
N 4325	7.8	-17.2					
	-17.7	19.8					
	32.0						
	-72.6						
6	5.8	-25.8					
	-19.7	11.2					
	23.8						
	-80.8						
138	6.5	-21.3					
	-19.1	15.7					
	26.6						
	-78.3						

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+11	2.1	12	17	17.0	+11	9.4
+11	27.5	12	17	16.7	+11	9.2
		12	17	17	+11	9.3
						54.8
+11	27.5	12	18	2.6	+10	~~0.2~~
+10	50.4	12	18	2.7	+10	54.7
		12	18	3	+10	54.8
		12	17	52.8	+11	6.0
		12	17	52.8	+11	5.9
		12	17	53	+11	6.0
		12	18	1.4	+11	10.3
		12	18	1.4	+11	10.2
		12	18	1	+11	10.2
		12	17	53.2	+11	1.7
		12	17	53.2	+11	1.6
		12	17	53	+11	1.6
		12	17	56.0	+11	6.2
		12	17	55.7	+11	6.1
		12	17	56	+11	6.2

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7	9.9	-23.7		12	17	29.4	+
	-15.6	13.2		12	19	14.0	+
	40.6						
	-64.0						
5	22.8	-31.6					
	-2.4	5.3					
	93.5						
	-9.8						
10	16.1	-12.8					
	-9.4	24.2					
	66.0						
	-38.5						
13	14.5	-11.2					
	-10.8	25.8					
	59.4						
	-44.3						
14	13.1	-8.6					
	-12.4	28.5					
	53.7						
	-50.8						
17	12.1	-11.1	1 1 2 4 5 1	12	16	39.7	+1
	5.0	5.3	1 1 2 4 5 2	12	17	29.4	+
	49.6		12 14 22.2 +11 58.8				
	0.0		12 15 11.9 +11 42.5				
			2 17.5 -15				

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+11	27.5	12	18	10.0	+11	3 8
+10	50.4	12	18	10.0	+11	3 .6
		12	18	10.	+ 11	3.7
		12	19	2.9	+ 10	55 9
		12	19	4.2	+10	55 .7
		12	19	3	+10	55.8
		12	18	354	+11	14.7
		12	18	35.5	+ 11	14.6
		12	18	35	+ 11	14.6
		12	18	28.8	+ 11	16.3
		12	18	29.7	+ 11	16.2
		12	18	29	+ 11	16. 2
		12	18	23.1	+11	18 9
		12	18	23.2	+11	18 .9
		12	18	23	+ 11	18.9
+11	43.8	12	17	29.3	+ 11	32.7
+11	27.5	12	17	29.4	+ 11	32.8
		12	17	29	+11	32.8

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19	29.4	−1.7	112452	12 17 29.4	+
	−3.5	10.4	112455	12 19 43.6	+
	120.5		12 15 11.9 +11 42.5		
	−14.4		12 17 26.1 +11 30.5		
			2 17.5 −15		
I.C. 3284	30.2	−4.9			
	−2.7	7.2			
	123.8				
	−11.1				
15	27.4	−7.2			
	−5.5	4.8			
	112.3				
	−22.6				
14	13.3	−6.9			
	−19.6	3.2			
	54.5				
	−80.4				
16	5.4	2.4	112452	12 17 29.4	+
	−22.6	−12.8	112454	12 19 24.7	+
	22.1		12 15 11.9 +11 42.5		
	−92.7		12 17 9.2 +11 57.7		
			2 17.5 −15		
18	24.9	6.0			
	−3.2	−9.2			
	102.1				
	−13.1				

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+11	27.5	12	19	29.9	+11	25.8
+11	15.5	12	19	29.2	+11	25.9
		12	19	30	+11	25.8
		12	19	33.2	+11	22.6
		12	19	32.5	+11	22.7
		12	19	33	+11	22.6
		12	19	21.7	+11	20.3
		12	19	21.0	+11	20.3
		12	19	21	+11	20.3
		12	18	23.9	+11	18.6
		12	18	23.2	+11	18.7
		12	18	24	+11	18.6
+11	27.5	12	17	51.5	+11	29.9
+11	42.7	12	17	52.0	+11	29.9
		12	17	52	+11	29.9
		12	19	11.5	+11	33.5
		12	19	11.6	+11	33.5
		12	19	12	+11	33.5

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I.C. ~~3215~~ 3275	0.3	9.1	112453	12	19	14.0 +
?	-6.8	-16.0	112455	12	19	43.6 +
.	1.2		12 16 56.5 +11 5.4			
	-27.9		12 17 26.1 +11 30.5			
			2 17.5 -15			
8	5.1	18.2				
	-2.1	-7.1				
	20.9					
	-8.6					
9	12.5	-7.6	112455	12	19	43.6 +
	-20.1	9.5	112463	12	21	57.2 +
	51.2		12 17 26.1 +11 30.5			
	-82.4		12 19 39.7 +11 13.4			
			2 17.5 -15			
N. 4390	15.0	-15.0				
	-17.7	2.1				
	61.5					
	-72.6					
140	6.5	-0.8	112454	12	19	24.7 +
	-30.7	43.3	112463	12	21	57.2 +
	26.6		12 17 7.2 +11 57.7			
	-125.9		12 19 39.7 +11 13.4			
			2 17.5 -15			
139	10.1	-1.7				
	-27.1	42.5				
	41.4					
	-111.1					

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+10	50.4	12	19	15.2	+10	59.5
+11	15.5	12	19	15.7	+10	59.5
		12	19	15	+10	59.5
		12	19	34.9	+11	8.6
		12	19	35.0	+11	8.4
		12	19	35	+11	8.5
+11	15.5	12	20	34.8	+11	7.9
+10	58.4	12	20	34.8	+11	7.9
		12	20	35	+11	7.9
		12	20	45.1 ~~17.0~~	+11	0.5
		12	20	44.6	+11	0.5
		12	20	45	+11	0.5
+11	42.7	12	19	51.3	+11	41.9
+10	58.4	12	19	51.3	+11	41.7
		12	19	51	+11	41.8
		12	20	6.1	+11	41.0
		12	20	6.1	+11	40.9
		12	20	6	+11	41.0

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23	20.7	-11.8	12	19	24.7	+
	-16.7	32.3	12	21	57.2	+
	84.9					
	-68.5					
22	24.4	-17.3				
	-12.9	27.0				
	100.0					
	-52.9					
21	30.8	-18.7				
	-6.4	25.6				
	126.3					
	-26.2					
20	32.6	-22.9				
	-4.5	21.3				
	133.7					
	-18.4					
I.C.3361	35.3	-29.4				
	-1.8	14.8				
	145.1					
	-7.4					
I.C.3347	32.8	14.3				
	-4.3	30.0				
	134.5					
	-17.6					

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	+11	42.7	12	20	49.6	+11 30.9
	+10	58.4	12	20	48.7	+11 30.7
			12	20	49	+11 30.8
			12	21	4.7	+11 25.4
			12	21	4.3	+11 25.4
			12	21	4	+11 25.4
			12	21	31.0	+11 24.0
			12	21	31.0	+11 24.0
			12	21	31.	+11 24.0
			12	21	38.4	+11 19.8
			12	21	38.8	+11 19.7
			12	21	39	+11 19.8
			12	21	49.8	+11 13.3
			12	21	49.8	+11 13.2
			12	21	50	+11 13.2
			12	21	39.2	+11 28.4
			12	21	39.6	+11 28.4
			12	21	39	+11 28.4

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25	11.5	-17.4	122449	12	14	56.5
	-13.8	9.7	112451	12	16	40.2
	47.1		12 12 38.5 +12 25.8			
	-56.6		12 14 22.2 +11 58.8			
			2 18.0 -15			
26	9.7	-14.0				
	-15.6	12.9				
	39.8					
	-64.0					
27	15.5	-2.5				
	-9.8	24.5				
	63.6					
	-40.2					
28	15.2	-0.4				
	-10.2	26.7				
	62.3					
	-41.8					
N 4294	18.3	-7.5				
	-6.9	19.6				
	75.0					
	-28.3					
N 4299	23.8	-8.0				
	-1.4	19.0				
	97.6					
	-5.7					

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.5	+12	10.8	12	15	43.6	+11	53.4
.2	+11	43.8	12	15	43.6	+11	53.5
			12	15	44	+11	53.4
			12	15	36.3	+11	56.8
			12	15	36.2	+11	56.7
			12	15	36	+11	56.8
			12	16	0.1	+12	8.3
			12	16	0.0	+12	8.3
			12	16	0.0	+12	8.3
			12	15	58.8	+12	10.4
			12	15	58.4	+12	10.5
			12	15	59	+12	10.4
			12	16	11.5	+12	3.3
			12	16	11.9	+12	3.4
			12	16	12	+12	3.4
			12	16	34.1	+12	2.8
			12	16	34.5	+12	2.8
			12	16	34	+12	2.8

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30	19.4	9.7	122449	12	14	56.5
	-1.2	-2.3	122455	12	16	21.5
	79.5		12 12 38.5 +12 25.8			
	-4.9		12 14 3.5 +12 38.0			
			+2 18.0 -15			
I.C. 3192	15.3	7.8				
	-5.3	4.1				
	62.7					
	-21.7					
I.C. 3196	20.5	8.4				
	-0.1	-3.6				
	84.0					
	-0.4					
31	3.3	-14.1	122451	12	15	28.5
	-9.8	3.3	122455	12	16	21.5
	13.5		12 13 10.3 +12 55.2			
	40.2		12 14 3.5 +12 38.0			
			+2 18.0 -15			
32	0.8	-9.1				
	-12.3	8.0				
	3.3					
	-50.4					
33	8.5	-3.5				
	-4.7	14.0				
	34.8					
	-19.3					

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1927phae.proj.2311

+12	10.8	12	16	16.0	+12	20.5
+12	23.0	12	16	16.6	+12	20.7
		12	16	16	+12	20.6
		12	15	59.2	+12	18.6
		12	15	59.8	+12	18.9
		12	16	0	+12	18.8
		12	16	20.5	+12	19.2 ~~24~~
		12	16	21.1	+12	~~19.4~~
		12	16	21	+12	19.3
+12	40.2	12	15	41.8	+12	26.1
+12	23.0	12	15	41.3	+12	26.3
		12	15	42	+12	26.2
		12	15	31.6	+12	31.1
		12	15	31.1	+12	31.0
		12	15	31	+12	31.0
		12	16	3.1	+12	36.7
		12	16	2.2	+12	37.0
		12	16	3	+12	36.8

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29	7.8	−13.9	122455	12	16	21.5 +
	−20.9	9.3	122461	12	18	19.0 +
	32.0		12 14 3.5 +12 38.0			
	−85.7		12 16 1.0 +12 14.8			
			+2 18.0 −15			
34	6.6	−1.2				
	−22.2	21.8				
	27.1					
	−91.2					
I.C. 3209	9.6	−4.1				
	−19.2	19.0				
	39.4					
	−78.7					
N.G.C. 3313	17.4	−1.5				
	−11.3	21.6				
	71.3					
	−46.3					
I.C. 3239	25.1	−6.2				
	−3.8	17.0				
	102.9					
	−15.6					
37	28.2	−15.0				
	−0.5	8.0				
	115.6					
	2.0					

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1927phae.proj.23111

+12	23.0	12	16	53.5	+12	9.1
+11	59.8	12	16	53.3	+12	9.1
		12	16	53	+12	9.1
		12	16	48.6	+12	21.8
		12	16	48.0	+12	21.6
		12	16	48	+12	21.7
		12	17	0.9	+12	18.9
		12	17	0.3	+12	18.8
		12	17	1	+12	18.8
		12	17	32.8	+12	21.5
		12	17	32.7	+12	21.4
		12	17	33	+12	21.4
		12	18	4.4	+12	16.8
		12	18	3.4	+12	16.8
		12	18	4	+12	16.8
		12	18	17.1	+12	8.0
		12	18	17.0	+12	7.8
		12	18	17	+12	7.9

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38	7.0	2.3	1 2 24 61	12	18	19.0	+1
	-21.5	-25.5	1 2 24 65	12	20	16.3	+1
	28.7		12 16 1.0 +12 14.8				
	-88.2		12 17 58.3 +12 42.7				
			+2 18.0 -15				
39	12.7	4.2					
	-15.8	-23.7					
	52.1						
	-64.8						
40	13.6	9.0					
	-15.0	-19.0					
	55.8						
	-61.5						
I.C. 3261	7.8	2.8					
	-20.9	-24.9					
	32.0						
	-85.7						
141	10.3	17.5					
	-18.4	-10.4					
	42.2						
	-75.4						
N 4371	22.5	15.7					
	-6.2	-12.3					
	92.2						
	-25.4						

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	+11	59.8	12	18	47.7	+12	2.1
	+12	27.7	12	18	48.1	+12	2.2
			12	18	48	+12	2.2
			12	19	11.1	+12	4.0
			12	19	11.5	+12	4.0
			12	19	11	+12	4.0
			12	19	14.8	+12	8.8
			12	19	14.8	+12	8.7
			12	19	15	+12	8.8
			12	18	51.0	+12	2.6
			12	18	50.6	+12	2.8
			12	18	51	+12	2.7
			12	19	1.2	+12	17.3
			12	19	0.9	+12	17.3
			12	19	1	+12	17.3
			12	19	51.2	+12	15.5
			12	19	50.9	+12	15.4
			12	19	51	+12	15.4

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1927phae.proj.2311A

24	27.7	9.7		12 18 19.0	+
	−0.9	−18.2		12 20 16.3	+
	113.6				
	−3.7				
48	4.3	27.9			
	−24.4	−0.0			
	17.6				
	−100.0				
J.C. 3305	27.0	24.3			
	−1.6	−3.7			
	110.7				
	−6.6				
60	1.8	7.8	12 2451	12 15 28.8	+1
	−21.6	−11.6	13 2525	12 17 3.7	+1
	7.4		12 13 10.3 +12 55.2		
	−88.6		12 14 45.7 +13 14.5		
			+2 18.0 −15		
59	17.1	8.4			
	−6.3	−11.0			
	70.1				
	−25.8				
61	23.1	15.5			
	−0.3	−4.0			
	94.7				
	−1.2				

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1927phae.proj.2311A

+11	59.8	12	20	12.6	+12	19.5
+12	27.7	12	20	12.6	+12	9.5
		12	20	13	+12	9.5
		12	18	36.6	+12	27.8
		12	18	36.3	+12	27.7
		12	18	36	+12	27.7
		12	20	9.7	+12	24.1
		12	20	9.7	+12	24.0
		12	20	10	+12	24.0
+12	40.2	12	15	35.7	+12	48.0
+12	59.5	12	15	35.1	+12	47.9
		12	15	35	+12	48.0
		12	16	38.4	+12	48.6
		12	16	37.9	+12	48.5
		12	16	38	+12	48.6
		12	17	3.0	+12	55.7
		12	17	2.5	+12	55.5
		12	17	3	+12	55.6

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				2			
62	1.9	−2.2	13 25 25	1$	17	37	+
	−21.2	28.7	12 24 62	12	18	38.3	+
	7.8		13 14 45.7 +13 14.5				
	−86.9		12 16 20.3 +12 43.6				
			+2 18.0 −15.				
63	5.8	−4.7					
	−17.2	26.2					
	23.8						
	−70.5						
64	8.8	−8.4					
	−14.2	22.4					
	36.1						
	−58.2						
65	11.5	−8.5					
	−11.6	22.3					
	47.1						
	−47.6						
66	14.1	−7.3					
	−9.0	23.5					
	57.8						
	−36.9						
58	9.9	−11.1					
	−13.3	19.7					
	40.6						
	−54.5						

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+12	59.5	13	17	11.5	+12	57.3
+12	28.6	13	17	11.4	+12	57.3
		12	17	11	+12	57.3
		13	17	27.5	+12	54.8
		13	17	27.8	+12	54.8
		12	17	28	+12	54.8
		12	17	39.8	+12	51.1
		13	17	40.1	+12	51.0
		12	17	40	+12	51.0
		12	17	50.8	+12	51.0
		12	17	50.7	+12	50.9
		12	17	51	+12	51.0
		12	18	1.5	+12	52.2
		12	18	1.4	+12	52.1
		12	18	1	+12	52.2
		12	17	44.3	+12	48.4
		12	17	43.8	+12	48.3
		12	17	44	+12	48.4

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57	10.6	-11.7	12	17	3.7	+1
	-12.7	19.2	12	18	38.3	+
	43.5					
	-52.1					
56	11.8	-12.4				
	-11.3	18.4				
	48.4					
	-46.3					
55	9.6	-18.1				
	-13.6	12.7				
	39.4					
	-55.8					
54	9.5	-18.7				
	-13.7	12.1				
	39.0					
	-56.2					
2-C3224	6.7	-16.6				
	-16.5	14.3				
	27.5					
	-67.6					
51	17.5	-26.5				
	-5.6	4.3				
7	71.8					
	-23.0					

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+12	59.5	12	17	47.2	+12 47.8
+12	28.6	12	17	46.2	+12 47.8
		12	17	47	+12 47.8
		12	17	52.1	+12 47.1
		12	17	52.0	+12 47.0
		12	17	52	+12 47.0
		12	17	43.1	+12 41.4
		12	17	42,5	+12 41.3
		12	17	43	+12 41.4
		12	17	42.7	+12 40.8
		12	17	42.1	+12 40.7
		12	17	42	+12 40.8
		12	17	31.2	+12 42.9
		12	17	30.7	+12 42.9
		12	17	31	+12 42.9
		12	18	15.5	+12 33.0
		12	18	15.3	+12 32.9
		12	18	15	+12 33.0

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50	17.1	−29.1		12 17 3.7	+
	−5.9	1.7		12 18 38.3	+
	70.1				
	−24.2				
36	2.0	−30.0			
	−21.1	0.8			
	8.2				
	−86.5				
41	1.3	−14.3	12 24 65	12 20 16.3	+
	−30.4	31.6	11 24 64	12 22 26.5	+
	5.3		12 17 58.3 +12 42.7		
	−124.6		12 20 8.5 +11 56.7		
			2 18.0 −15		
2C. 3331	10.8	−5.8			
	−20.9	40.2			
	44.3				
	−85.7				
42	14.4	−8.0			
	−17.3	37.9			
	59.0				
	−70.9				
43	29.0	−4.9			
	−2.6	41.0			
	118.9				
	−10.7				

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	+12	59.5	12	18	13.8	+12	30.4
	+12	28.6	12	18	14.1	+12	30.3
			12	18	14	+12	30.4
			12	17	11.9	+12	29.5
			12	17	11.8	+12	29.4
			12	17	12	+12	29.4
3	+12	27.7	12	20	21.6	+12	13.4
.5	+11	41.7	12	20	21.9	+12	13.3
			12	20	22	+12	13.4
			12	21	0.6	+12	21.9
			12	21	0.8	+12	21.9
			12	21	1	+12	21.9
			12	21	15.3	+12	19.7
			12	21	15.6	+12	19.6
			12	21	15	+12	19.6
			12	22	15.2	+12	22.8
			12	22	15.8	+12	22.7
			12	22	16	+12	22.8

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2.C.3358	22.7	-14.6		12	20	16.3	+
	-8.9	31.3		12	22	26.5	+
	93.1						
	-36.5						
2.C.3356	21.9	-21.0					
	-9.7	25.0					
	89.8						
	-39.8						
2.C.3346	20.4	-31.5					
	-11.3	14.4					
	83.6						
	-46.3						
52	4.3	6.2	12246 2	12	18	38.3	+
	-34.7	-10.0	12246 6	12	21	19.3	+
	17.6		12 16 20.3 +12 43.6				
	-142.3		12 19 1.3 +12 59.8				
			2 18.0 -15				
53	6.2	11.2					
	-32.7	-5.					
	25.4						
	-134.1						
2.C. 3291	15.8	6.4					
	-23.2	-9.8					
	64.8						
	95.1						

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3	+12	27.7	12	21	49.4	+12	13.1
5	+11	41.7	12	21	50.0	+12	13.0
			12	21	50	+12	13.0
			12	21	46.1	+12	6.7
			12	21	46.7	+12	6.7
			12	21	46	+12	6.7
			12	21	39.9	+11	56.2
			12	21	40.2	+11	56.1
			12	21	40	+11	56.2
3	+12	28.6	12	18	55.9	+12	34.8
3	+12	44.8	12	18	57.0	+12	34.8
			12	18	56	+12	34.8
			12	19	3.7	+12	39.8
			12	19	5.2	+12	39.8
			12	19	4	+12	39.8
			12	19	43.1	+12	35.0
			12	19	44.2	+12	35.0
			12	19	44	+12	35.0

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46	17.4	11.3		12	18	38.3	+
	-21.5	-4.8		12	21	19.3	+
	71.3						
	-88.2						
47	16.2	14.9					
	-22.7	-1.4					
	66.4						
	-93.1						
45	1.2	-0.2	122466	12	21	19.3	+
	-26.8	21.4	122474	12	23	11.9	+
	4.9		12 19 1.3 +12 59.8				
	-109.9		12 20 53.9 +12 36.3				
			2 18.0 -15				
I.C. 794	25.6	-5.3					
	-2.4	16.0					
	105.0						
	-9.8						
44	4.5	10.0	122474	12	23	11.9	+
	-15.5	-13.2	132542	12	24	34.4	+
	18.4		12 20 53.9 +12 36.3				
	-63.6		12 22 16.4 +13 1.6				
			2 18.0 -15				
N 4431	15.3	6.7	122466	12	21	19.3	+
	-12.3	-2.7	132539	12	23	11.9	+
Position corrected from 4 B.D. stars.	62.7		12 19 1.3 +12 59.8				
	-50.4		12 20 ~~57.2~~ 53.9 +13 9.2				
			2 18.0 -15				

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+12	28.6	12	19	49.6	+12	39.9
+12	44.8	12	19	51.1	+12	40.0
		12	19	50	+12	40.0
		12	19	44.7	+12	43.5
		12	19	46.2	+12	43.4
		12	19	45	+12	43.4
+12	44.8	12	21	24.2	+12	44.6
+12	23.3	12	21	22.0	+12	44.7
		12	21	23	+12	44.6
					+12	39.5
		12	23	4.3	~~12 21 14.0~~	
		12	23	2.1	+12	39.9
		12	21	3	+12	39.4
+12	23.3	12	23	30.3	+12	33.3
+12	46.6	12	23	30.8	+12	33.4
		12	23	31	+12	33.4
+12	44.8	12	22	22.0	+12	51.5
+12	54.0	12	22	21.5	+12	51.3
		12	22	22	+12	51.4

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N 4436	18.7	8.2		12	21	19.3	+
	−8.8	−1.4		12	23	11.9	+
	76.7						
	−36.1						
N 4440	21.7	6.7					
	−5.8	−2.8					
	89.0						
	−23.8						
71	2.5	−8.6	132534	12	21	22.3	+
Position corrected	−24.0	8.5	132539	12	23	10.9	+
from 4 B.D.	10.2		12 19 5.3 +13 25.9				
stars.	−98.4		12 20 ~~57.2~~ 53.9 +13 9.2				
			2 17.0 −15				
N 4413	0.5	−2.8					
	−26.1	14.2					
	2.0						
	−107.1						
D.C. 3349	4.4	−12.0					
	−22.2	5.0					
	18.0						
	−91.0						
D.C. 3363	8.2	−5.4					
	−18.3	11.7					
	33.6						
	−75.0						

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+12	44.8	12	22	36.0	+12	53.0	
+12	54.0	12	22	35.8	+12	52.6	
		12	22	36	+12	52.8	
		12	22	48.3	+12	51.5	
		12	22	48.1	+12	51.2	
		12	22	48	+12	51.4	
+13	10.9	12	21	32.5	+13	2.3	
+12	54.2	12	21	32.5	+13	2.7	
		12	21	32	+13	2.5	
		12	21	24.3	+13	8.1	
		12	21	23.8	+13	8.4	
		12	21	24	+13	8.2	
		12	21	40.3	+12	58.9	
		12	21	39.9	+12	59.2	
		12	21	40	+12	59.0	
		12	21	55.9	+13	5.5	
		12	21	55.9	+13	5.9	
		12	21	56	+13	5.7	

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I.C. 3258	5.5	-11.1	132528	12	18	17.6
	-39.0	-16.1	122466	12	21	18.8
	22.6		12 15 59.1 +13 27.0			
	-159.9		12 19 1.3 +12 59.8			
			2 17.5 -15			
N. 4351	9.7	-27.1				
	-34.8	0.0				
	39.8					
	-142.7					
69	21.2	-9.0				
	-23.3	18.0				
	86.9					
	-95.5					
68	18.8	-17.9				
	25.8	9.3				
	77.1					
	-105.8					
67	22.0	-23.0				
	-22.5	4.1				
	90.2					
	-92.2					
70	31.7	-12.9				
	-12.8	14.2				
	130.0					
	-52.5					

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6	+13	12.0	12	18	40.2	+13 09
8	+12	44.8	12	18	38.9	+13 .9
			12	18	39	+13 0.9
			12	18	57.4	+12 44.9
			12	18	56.1	+12 44.8
			12	18	57	+12 44.8
			12	19	44.5	+13 3.0
			12	19	43.3	+13 2.8
			12	19	44	+13 2.9
			12	19	34.7	+12 54.1
			12	19	33.0	+12 54.1
			12	19	34	+12 54.1
			12	19	47.8	+12 49.0
			12	19	46.6	+12 48.9
			12	19	47	+12 49.0
			12	20	27.6	+12 59.1
			12	20	26.3	+12 59.0
			12	20	27	+12 59.0

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I.C. 3315	33.3	-19.0		12	18	17.6	+
	-11.2	8.2		12	21	18.8	+
	136.5						
	-45.9						
I.C. 3311	31.9	-22.3					
	-12.5	4.8					
	130.8						
	-51.2						
75	2.6	7.0	132525	12	17	2.7	+
	-15.3	-5.5	132528	12	18	16.1	+
	10.7		12 14 45.7 +13 14.5				
	-62.7		12 15 59.1 +13 27.0				
			2 17.0 -15				
74	10.0	8.0					
	-8.0	-4.5					
	41.0						
	-32.8						
I.C. 3233	11.3	7.0					
	-6.7	-5.5					
	46.9						
	-27.5						
76	0.8	-9.5	132523	12	16	21.1	+1
	-9.2	5.1	132525	12	17	2.7	+1
	3.3		12 14 4.1 +13 28.7				
	-37.7		12 14 45.7 +13 14.5				
			2 17.0 -15				

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+13	12.0	12	20	34.1	+12	53.0
+12	44.8	12	20	32.9	+12	53.0
		12	20	33	+12	53.0
		12	20	28.4	+12	49.7
		12	20	27.6	+12	49.6
		12	20	28	+12	49.6
+12	59.5	12	17	13.4	+13	6.5
+13	12.0	12	17	13.4	+13	6.5
		12	17	13	+13	6.5
		12	17	43.7	+13	7.5
		12	17	43.3	+13	7.5
		12	17	44	+13	7.5
		12	17	49.0	+13	6.5
		12	17	48.6	+13	6.5
		12	17	49	+13	6.5
+13	13.7	12	16	24.4	+13	4.2
+12	59.5	12	16	25.0	+13	4.6
		12	16	25	+13	4.4

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79	3.6	-3.7		12	16	21.1	+
	-6.5	10.8		12	17	2.7	+
	14.8						
	-26.6						
77	7.0	23.5	12 24 51	12	15	27.8	+
	-6.0	-9.7	13 25 23	12	16	21.6	+
	28.7		12 13 10.3 +12 55.2				
	-24.6		12 14 4.1 +13 28.7				
			2 17.5 -15				
78	29.1	-10.9	13 25 21	12	13	56.0	+
	-6.4	2.6	13 25 23	12	16	21.1	+
	119.3		12 11 39.0 +13 42.2				
	-26.2		12 14 4.1 +13 28.7				
			2 17.0 -15				
80	4.0	8.5	13 25 23	12	16	21.1	+
	-41.6	-4.2	13 25 30	12	19	27.9	+
	16.4		12 14 4.1 +13 28.7				
	-170.6		12 17 10.9 +13 41.4				
			2 17.0 -15				
N 4305	9.2	3.9					
	-36.3	-8.8					
	37.7						
	-149.2						
N 4306	9.3	6.7					
	-36.2	-6.0					
	38.1						
	-148.4						

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+13	13.7	12	16	35.9	+13	10.0
+12	59.5	12	16	36.1	+13	10.3
		12	16	36	+13	10.2
+12	40.2	12	15	56.5	+13	3.7
+13	13.7	12	15	57.0	+13	4.0
		12	15	57	+13	3.8
+13	27.2	12	15	55.3	+13	16.3
+13	13.7	12	15	54.9	+13	16.3
		12	15	55	+13	16.3
+13	13.7	12	16	37.5	+13	22.2
+13	26.4	12	16	37.3	+13	22.2
		12	16	37	+13	22.2
		12	16	58.8	+13	17.6
		12	16	58.7	+13	17.6
		12	16	59	+13	17.6
		12	16	59.2	+13	20.4
		12	16	59.5	+13	20.4
		12	16	59	+13	20.4

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81	22.7	7.5		12	16	21.1	+
	−22.8	−5.2		12	19	27.9	+
	93.1						
	−93.5						
82	26.0	8.8					
	−19.5	−3.8					
	106.6						
	−80.0						
73	34.6	3.4					
	11.0	−9.3					
	141.9						
	−45.1						
72	45.5	2.5					
	−0.0	−10.2					
	186.6						
	−0.0						
I.C.3303	9.8	−10.6	132530	12	19	27.9	+
	−18.2	5.0	132534	12	21	22.3	+
	40.2		12 17 10.9 +13 41.4				
	−74.6		12 19 5.3 +13 25.9				
			2 17.0 −15				
N.4387	16.8	−5.3					
	−11.3	10.2					
	68.9						
	−46.3						

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+13	13.7	12	17	54.2	+13	21.2
+13	26.4	12	17	54.4	+13	21.2
		12	17	54	+13	21.2
		12	18	7.7	+13	22.5
		12	18	7.9	+13	22.6
		12	18	8	+13	22.6
		12	18	43.0	+13	17.1
		12	18	42.8	+13	17.1
		12	18	43	+13	17.1
		12	19	27.7	+13	16.2
		12	19	27.9	+13	16.2
		12	19	28	+13	16.2
+13	26.4	12	20	8.1	+13	15.8
+13	10.9	12	20	7.7	+13	15.9
		12	20	8	+13	15.8
		12	20	36.8	+13	21.1
		12	20	36.0	+13	21.1
		12	20	36	+13	21.1

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N 4388	17.7	-14.3		12	19	27.9	+
	-10.5	1.3		12	21	22.3	+
	72.6						
	-43.0						
144	1.0	-5.1	132534	12	21	22.3	+
	-33.6	-22.5	132540	12	23	44.3	+
	4.1		12 19 5.3 +13 25.9				
	-137.8		12 21 29.3 +13 53.4				
			2 17.0 -15				
N 4425	10.7	5.1					
	-23.9	-22.5					
	43.9						
	-98.0						
N 4438	19.4	22.0					
	-15.4	-5.7					
	79.5						
	-63.1						
I.C. 3388	29.2	11.5					
	-5.5	-16.1					
	119.7						
	-22.6						
I.C. 3393	32.8	17.2					
	-1.9	-10.4					
	134.5						
	-7.8						

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					40.5						
	+13	26.4	12	20	~~22.8~~	+13	12.1				
	+13	10.9	12	20	39.3	+13	12.1				
			12	20	40	+13	12.1				
	+13	10.9	12	21	26.4	+13	16.0				
	+13	38.4	12	21	26.5	+13	15.9				
			12	21	26	+13	16.0	12	26	31	+12 42.7
			12	22	6.2	+13	16.0				
			12	22	6.3	+13	15.9				
			12	22	6	+13	16.0				
			12	22	41.8	+13	32.9				
			12	22	41.2	+13	32.7				
			12	22	42	+13	32.8				
			12	23	22.0	+13	22.4				
			12	23	21.7	+13	22.3				
			12	23	22	+13	22.4				
			12	23	36.8	+13	28.1				
			12	23	36.5	+13	28.0				
			12	23	37	+13	28.0				

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99	18.1	-7.0	142491	12	15	42.1	+
	-37.0	18.2	132530	12	19	27.9	+
	74.2		12 13 25.1 +14 6.7				
	-151.7		12 17 10.9 +13 41.4				
			2 17.0 -15				
100	16.2	-2.3					
	38.9	23.0					
	66.4						
	159.5						
101	22.5	-0.2					
	-32.6	25.1					
	92.2						
	-133.7						
D.C. 3246	36.5	-15.0					
	-18.6	19.3					
	149.6						
	-76.3						
85	35.2	-16.6					
	-19.9	8.7					
	144.3						
	-81.6						
142	40.9	-17.8					
	-14.1	7.5					
	167.7						
	-57.8						

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1	+13	51.7	12	16	56.3	+13	44.7
9	+13	26.4	12	16	56.2	+13	44.6
			12	16	56	+13	44.6
			12	16	48.5	+13	49.4
			12	16	48.4	+13	49.4
			12	16	48	+13	49.4
			12	17	54.3	+13	51.5
			12	17	14.2	+13	51.5
			12	17	14	+13	51.5
			12	18	11.7	+13	36.7
			12	18	11.6	+13	36.7
			12	18	12	+13	36.7
			12	18	6.4	+13	35.1
			12	18	6.3	+13	35.1
			12	18	6	+13	35.1
			12	18	29.8	+13	33.9
			12	18	30.1	+13	33.9
			12	18	30	+13	33.9

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86	40.8	-19.6		12	15	42.1	+
	-14.3	5.7		12	19	27.9	+
	167.3						
	-58.6						
84	38.4	-21.3					
	-16.7	+4.0					
	157.4						
	-68.5						
83	41.0	-24.2					
	-14.0	1.0					
	168.1						
	-57.4						
87	46.6	-24.8					
	-8.5	0.5					
	191.1						
	-34.8						
2C. 3280	53.2	-3.8					
	-2.0	21.4					
	218.1						
	-8.2						
163	10.4	-15.5	142488	12	14	48.2	+
	-2.9	4.9	142491	12	15	42.1	+
	42.6		12 12 31.2 +14 27.0				
	-11.9		12 13 25.1 +14 6.7				
			2 17.0 -15				

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+13	51.7	12	18	29.4	+13	32.1
+13	26.4	12	18	29.3	+13	32.1
		12	18	29	+13	32.1
		12	18	19.5	+13	30.4
		12	18	19.4	+13	30.4
		12	18	19	+13	30.4
		12	18	30.2	+13	27.5
		12	18	30.5	+13	27.4
		12	18	30	+13	27.4
		12	18	53.2	+13	26.9
		12	18	53.1	+13	26.9
		12	18	53	+13	26.9
		12	19	20.2	+13	47.9
		12	19	19.7	+13	47.8
		12	19	20	+13	47.8
.2	+14	12.0	12	15	30.8	+13	56.5
.1	+13	51.7	12	15	30.2	+13	56.6
			12	15	30	+13	56.6

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102	6.5	2.2	142491	12	15	42.1	+
	-29.8	-16.8	142495	12	18	11.8	+
	26.6		12 13 25.1 +14 6.7				
	-122.2		12 15 54.8 +14 25.6				
			2 17.0 -15				
104	3.0	9.5					
	-33.3	-9.5					
	12.3						
	-136.5						
114	20.5	5.0					
	-15.7	-13.9					
	84.0						
	-64.4						
115	23.3	9.0					
	-13.1	-9.9					
	95.5						
	-53.7						
113	18.3	14.4					
	-18.2	-4.6					
	75.0						
	-74.6						
111	15.1	15.1					
	-21.3	-3.8					
	61.9						
	-87.3						

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.1	+13	51.7	12	16	8.7	+13 53.9
.8	+14	10.6	12	16	9.6	+13 53.8
			12	16	9	+13 53.8

12	15	54.4	+14	1.2
12	15	55.3	+14	1.1
12	15	55	+14	1.2

12	17	6.1	+13	56.7
12	17	7.4	+13	56.7
12	17	7	+13	56.7

12	17	17.6	+14	0.7
12	17	18.1	+14	.7
12	17	18	+14	0.7

12	16	57.1	+14	6.1
12	16	57.2	+14	6.0
12	16	57	+14	6.0

12	16	44.0	+14	6.8
12	16	44.5	+14	6.8
12	16	44	+14	6.8

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116	26.5	8.3		12	15	42.1	+
	−9.8	−10.6		12	18	11.8	+
	108.6						
	−40.2						
J.C. 3235	31.8	14.3					
	−4.5	−4.7					
	130.4						
	−18.4						
117	30.3	17.1					
	−6.1	−1.9					
	124.2						
	−25.0						
97	17.7	−14.5	142495	12	18	11.8	+
	−12.2	13.6	132532	12	20	14.2	+
	72.6		12 15 54.8 +14 25.6				
	−50.0		12 17 57.2 +13 57.5				
			2 17.0 −15				
98	12.5	−19.0					
	−17.5	9.2					
	51.2						
	−71.8						
J.C. 3280	17.3	−23.5					
	−12.6	4.6					
	70.9						
	−51.7						

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	+13	51.7	12	17	30.7	+14	0.0
	+14	10.6	12	17	31.6	+14	0.0
			12	17	31	+14	0.0
			12	17	52.5	+14	6.0
			12	17	53.4	+14	5.9
			12	17	53	+14	6.0
			12	17	46.3	+14	8.8
			12	17	46.8	+14	8.7
			12	17	47	+14	8.8
8	+14	10.6	12	19	24.4	+13	56.1
.2	+13	42.5	12	19	24.2	+13	56.1
			12	19	24	+13	56.1
			12	19	3.0	+13	51.6
			12	19	2.4	+13	51.7
			12	19	3	+13	51.6
			12	19	22.7	+13	47.1
			12	19	22.5	+13	47.1
			12	19	23	+13	47.1

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88	26.2	−23.0		12	18	11.8	+
	−3.7	5.1		12	20	14.2	+
	107.4						
	−15.2						
91	27.4	−10.7					
	−2.5	17.4					
	112.3						
	−10.2						
89	3.6	4.0	132532	12	20	14.2	+
	−4.9	−32.7	142501	12	20	49.0	+
	14.8		12 17 57.2 +13 57.5				
	−20.1		12 18 32.0 +14 34.3				
			2 17.0 −15				
90	2.6	7.8					
	−6.0	−28.8					
	10.7						
	−24.6						
92	2.5	20.3					
	−6.0	−16.4					
	10.2						
	−24.6						

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+14	10.6	12	19	59.2	+13	47.6
+13	42.5	12	19	59.0	+13	47.6
		12	19	59	+13	47.6
		12	20	4.1	+13	59.9
		12	20	4.0	+13	59.9
		12	20	4	+13	59.9
.2	+13	42.5	12	20	29.0	+13	46.5
.0	+14	19.3	12	20	28.9	+14 (3)	46.6
			12	20	29	+13	46.6
			12	20	24.9	+13	50.3
			12	20	24.4	+13	50.5
			12	20	25	+13	50.4
			12	20	24.2	+14	2.8
			12	20	24.4	+14	2.9
			12	20	24	+14	2.8

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